



(TO-220FP)

# ICE20N65FP

## Final Reliability Report

July 24th, 2012

# Reliability Test Request

## ICE20N65FP

| Test Performed                                        | Mil-Std. 750 Method | Conditions                                                  | Total # Units | Lot # 6701 | Lot # 6608 | Lot # 6700 |
|-------------------------------------------------------|---------------------|-------------------------------------------------------------|---------------|------------|------------|------------|
| Temperature Cycle                                     | 1051                | 100 cycles,<br>$\Delta T_j$ -55 to 175°C                    | 0/231         | 0/77       | 0/77       | 0/77       |
| High Temp Storage                                     | 1032                | 340 hrs, $T_j = 150^\circ\text{C}$                          | 0/231         | 0/77       | 0/77       | 0/77       |
| Steady State Gate Bias (positive)                     | 1042-B              | 1000 hrs, VGS = +24V<br>$T_j = 150^\circ\text{C}$           | 0/231         | 0/77       | 0/77       | 0/77       |
| Steady State Gate Bias (negative)                     | 1042-B              | 1000 hrs, VGS = -24V<br>$T_j = 150^\circ\text{C}$           | 0/231         | 0/77       | 0/77       | 0/77       |
| Steady State Reverse Bias                             | 1042-A              | 1000 hrs, VDS = 520V<br>$T_j = 150^\circ\text{C}$           | 0/231         | 0/77       | 0/77       | 0/77       |
| High Temperature, High Humidity, Reverse Bias (H3TRB) | 1042-A              | 1000 hrs, VDS = 520V<br>$T_j = 85^\circ\text{C}$ , RH = 85% | 0/231         | 0/77       | 0/77       | 0/77       |

\* All devices PASS 1000hr reliability testing.

# *Temperature Cycle*

**Temperature Cycle**  
**Mil-Std 750 M 1051, 100 Cycles,  $\Delta T_j$  -55°C to 175°C**  
**Lot 6701**

| SN | Initials     |             |              |            |                |              |              | 100 Cycles End Points |             |              |            |                |              |              |
|----|--------------|-------------|--------------|------------|----------------|--------------|--------------|-----------------------|-------------|--------------|------------|----------------|--------------|--------------|
|    | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS(on)<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA          | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS(on)<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1  | 3.18         | 14.3E-9     | 24.8E-9      | 847.2E-3   | 128.2E-3       | 18.23        | -600.0E-12   | 3.15                  | 14.9E-9     | 35.2E-9      | 844.0E-3   | 132.8E-3       | 18.22        | -1.8E-9      |
| 2  | 3.16         | 17.4E-9     | 27.6E-9      | 844.4E-3   | 132.2E-3       | 18.30        | -1.6E-9      | 3.14                  | 20.5E-9     | 34.4E-9      | 842.8E-3   | 135.5E-3       | 18.24        | -2.4E-9      |
| 3  | 3.15         | 16.4E-9     | 28.4E-9      | 844.8E-3   | 132.0E-3       | 18.23        | -400.0E-12   | 3.14                  | 16.4E-9     | 34.0E-9      | 842.8E-3   | 134.9E-3       | 18.25        | -1.4E-9      |
| 4  | 3.14         | 16.9E-9     | 29.2E-9      | 842.4E-3   | 135.2E-3       | 18.23        | -600.0E-12   | 3.14                  | 19.7E-9     | 32.8E-9      | 842.4E-3   | 136.4E-3       | 18.34        | -2.3E-9      |
| 5  | 3.17         | 14.3E-9     | 26.0E-9      | 843.6E-3   | 137.8E-3       | 18.20        | -680.0E-12   | 3.16                  | 16.9E-9     | 31.6E-9      | 842.8E-3   | 139.9E-3       | 18.24        | -2.4E-9      |
| 6  | 3.17         | 16.4E-9     | 25.2E-9      | 843.2E-3   | 136.7E-3       | 18.20        | -680.0E-12   | 3.16                  | 17.4E-9     | 31.6E-9      | 842.0E-3   | 139.1E-3       | 18.22        | -2.4E-9      |
| 7  | 3.18         | 12.3E-9     | 37.2E-9      | 844.4E-3   | 137.8E-3       | 18.17        | -440.0E-12   | 3.16                  | 13.8E-9     | 46.8E-9      | 843.2E-3   | 141.0E-3       | 18.13        | -2.1E-9      |
| 8  | 3.18         | 13.8E-9     | 78.8E-9      | 844.8E-3   | 137.5E-3       | 18.18        | -1.0E-9      | 3.16                  | 24.6E-9     | 87.6E-9      | 843.6E-3   | 140.6E-3       | 18.14        | -2.1E-9      |
| 9  | 3.24         | 12.5E-9     | 26.0E-9      | 845.2E-3   | 132.5E-3       | 17.92        | 40.0E-12     | 3.23                  | 16.4E-9     | 31.6E-9      | 843.6E-3   | 135.8E-3       | 17.98        | -1.6E-9      |
| 10 | 3.26         | 12.8E-9     | 24.8E-9      | 846.4E-3   | 131.5E-3       | 17.86        | -800.0E-12   | 3.24                  | 16.4E-9     | 31.6E-9      | 844.0E-3   | 134.9E-3       | 17.99        | -1.4E-9      |
| 11 | 3.20         | 14.9E-9     | 23.6E-9      | 844.4E-3   | 134.6E-3       | 18.01        | -40.0E-12    | 3.19                  | 15.4E-9     | 28.4E-9      | 842.8E-3   | 138.6E-3       | 18.07        | -1.8E-9      |
| 12 | 3.23         | 13.8E-9     | 23.2E-9      | 845.6E-3   | 132.8E-3       | 17.92        | -1.6E-9      | 3.21                  | 17.9E-9     | 29.2E-9      | 844.4E-3   | 136.3E-3       | 18.01        | -1.5E-9      |
| 13 | 3.20         | 13.8E-9     | 22.0E-9      | 844.4E-3   | 135.1E-3       | 17.98        | -40.0E-12    | 3.19                  | 16.4E-9     | 29.2E-9      | 843.6E-3   | 138.3E-3       | 18.06        | -1.7E-9      |
| 14 | 3.20         | 13.3E-9     | 24.4E-9      | 844.0E-3   | 135.6E-3       | 17.96        | 320.0E-12    | 3.19                  | 15.4E-9     | 30.0E-9      | 844.0E-3   | 138.2E-3       | 18.08        | -1.8E-9      |
| 15 | 3.21         | 12.3E-9     | 23.6E-9      | 844.4E-3   | 135.4E-3       | 17.99        | -40.0E-12    | 3.20                  | 14.6E-9     | 29.2E-9      | 844.4E-3   | 138.0E-3       | 18.04        | -1.7E-9      |
| 16 | 3.22         | 15.4E-9     | 22.4E-9      | 844.4E-3   | 134.7E-3       | 18.04        | -640.0E-12   | 3.20                  | 14.3E-9     | 29.2E-9      | 843.6E-3   | 138.1E-3       | 17.99        | -1.7E-9      |
| 17 | 3.23         | 12.3E-9     | 22.8E-9      | 845.2E-3   | 135.8E-3       | 17.95        | 80.0E-12     | 3.21                  | 12.5E-9     | 28.8E-9      | 844.4E-3   | 139.3E-3       | 17.95        | -1.4E-9      |
| 18 | 3.23         | 13.8E-9     | 22.0E-9      | 845.6E-3   | 135.7E-3       | 17.98        | -40.0E-12    | 3.22                  | 13.8E-9     | 29.6E-9      | 845.6E-3   | 138.5E-3       | 18.06        | -1.4E-9      |
| 19 | 3.18         | 12.3E-9     | 28.4E-9      | 844.4E-3   | 138.3E-3       | 18.20        | -160.0E-12   | 3.17                  | 14.3E-9     | 34.0E-9      | 843.6E-3   | 141.0E-3       | 18.28        | -1.5E-9      |
| 20 | 3.19         | 12.5E-9     | 28.4E-9      | 845.2E-3   | 138.8E-3       | 18.23        | -80.0E-12    | 3.18                  | 14.9E-9     | 32.0E-9      | 846.4E-3   | 140.6E-3       | 18.24        | -1.6E-9      |
| 21 | 3.18         | 17.4E-9     | 25.2E-9      | 844.4E-3   | 137.9E-3       | 18.19        | -1.8E-9      | 3.16                  | 15.4E-9     | 32.4E-9      | 842.8E-3   | 141.0E-3       | 18.22        | -1.5E-9      |
| 22 | 3.17         | 13.8E-9     | 28.0E-9      | 842.8E-3   | 139.3E-3       | 18.14        | 9.0E-9       | 3.17                  | 17.4E-9     | 31.2E-9      | 844.0E-3   | 139.6E-3       | 18.26        | -1.8E-9      |
| 23 | 3.17         | 16.9E-9     | 26.8E-9      | 844.0E-3   | 138.1E-3       | 18.18        | -440.0E-12   | 3.16                  | 17.4E-9     | 33.2E-9      | 842.8E-3   | 140.5E-3       | 18.17        | -1.5E-9      |
| 24 | 3.18         | 16.9E-9     | 25.6E-9      | 845.2E-3   | 137.4E-3       | 18.20        | -160.0E-12   | 3.16                  | 17.7E-9     | 31.6E-9      | 842.8E-3   | 140.0E-3       | 18.19        | -1.4E-9      |
| 25 | 3.18         | 14.3E-9     | 27.2E-9      | 844.4E-3   | 136.9E-3       | 18.13        | -1.5E-9      | 3.17                  | 16.4E-9     | 31.6E-9      | 843.6E-3   | 138.2E-3       | 18.11        | -880.0E-12   |

**Temperature Cycle**  
**Mil-Std 750 M 1051, 100 Cycles,  $\Delta T_j$  -55°C to 175°C**  
**Lot 6701**

| SN | Initials     |             |              |            |              |              |              | 100 Cycles End Points |             |              |            |              |              |              |
|----|--------------|-------------|--------------|------------|--------------|--------------|--------------|-----------------------|-------------|--------------|------------|--------------|--------------|--------------|
|    | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA          | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 26 | 3.18         | 16.4E-9     | 27.2E-9      | 843.6E-3   | 137.8E-3     | 18.12        | -1.2E-9      | 3.17                  | 16.4E-9     | 30.8E-9      | 843.2E-3   | 138.7E-3     | 18.17        | -1.2E-9      |
| 27 | 3.21         | 13.3E-9     | 28.8E-9      | 844.4E-3   | 134.1E-3     | 18.16        | 400.0E-12    | 3.19                  | 14.9E-9     | 34.8E-9      | 842.8E-3   | 136.2E-3     | 18.22        | -1.4E-9      |
| 28 | 3.19         | 14.3E-9     | 27.2E-9      | 844.4E-3   | 135.6E-3     | 18.19        | -720.0E-12   | 3.18                  | 14.9E-9     | 33.6E-9      | 842.4E-3   | 137.3E-3     | 18.20        | -1.6E-9      |
| 29 | 3.28         | 12.8E-9     | 30.4E-9      | 844.4E-3   | 129.5E-3     | 17.95        | -600.0E-12   | 3.27                  | 14.3E-9     | 34.8E-9      | 843.6E-3   | 130.1E-3     | 18.04        | -2.0E-9      |
| 30 | 3.29         | 16.6E-9     | 28.8E-9      | 844.8E-3   | 128.2E-3     | 18.02        | -1.6E-9      | 3.27                  | 17.4E-9     | 35.2E-9      | 843.6E-3   | 130.8E-3     | 18.05        | -1.0E-9      |
| 31 | 3.29         | 10.2E-9     | 30.8E-9      | 844.4E-3   | 129.1E-3     | 18.01        | 1.3E-9       | 3.28                  | 14.3E-9     | 36.0E-9      | 843.6E-3   | 131.3E-3     | 18.07        | -720.0E-12   |
| 32 | 3.23         | 16.4E-9     | 29.2E-9      | 842.8E-3   | 130.4E-3     | 18.00        | -240.0E-12   | 3.23                  | 18.4E-9     | 34.0E-9      | 842.8E-3   | 132.3E-3     | 18.08        | -1.5E-9      |
| 33 | 3.26         | 13.3E-9     | 31.6E-9      | 844.0E-3   | 129.6E-3     | 18.08        | 2.4E-9       | 3.24                  | 18.4E-9     | 38.4E-9      | 843.2E-3   | 132.2E-3     | 18.10        | 000.0E+0     |
| 34 | 3.21         | 16.4E-9     | 29.2E-9      | 843.6E-3   | 130.5E-3     | 18.08        | 23.8E-9      | 3.20                  | 18.9E-9     | 33.6E-9      | 843.2E-3   | 132.4E-3     | 18.12        | 4.8E-9       |
| 35 | 3.23         | 15.4E-9     | 27.6E-9      | 843.2E-3   | 130.0E-3     | 17.99        | -240.0E-12   | 3.22                  | 16.9E-9     | 32.8E-9      | 843.6E-3   | 132.1E-3     | 18.11        | 4.0E-9       |
| 36 | 3.19         | 14.9E-9     | 32.0E-9      | 844.4E-3   | 130.8E-3     | 18.07        | 80.0E-12     | 3.19                  | 14.9E-9     | 38.0E-9      | 844.8E-3   | 133.0E-3     | 18.23        | 5.1E-9       |
| 37 | 3.20         | 16.4E-9     | 55.2E-9      | 843.6E-3   | 131.0E-3     | 18.11        | -840.0E-12   | 3.20                  | 19.5E-9     | 61.6E-9      | 844.0E-3   | 132.5E-3     | 18.17        | 4.0E-9       |
| 38 | 3.17         | 14.3E-9     | 40.8E-9      | 844.0E-3   | 138.0E-3     | 18.13        | -640.0E-12   | 3.16                  | 16.6E-9     | 46.4E-9      | 843.2E-3   | 140.6E-3     | 18.19        | -600.0E-12   |
| 39 | 3.19         | 14.3E-9     | 28.4E-9      | 844.8E-3   | 139.7E-3     | 18.08        | -600.0E-12   | 3.18                  | 12.3E-9     | 32.4E-9      | 844.4E-3   | 141.4E-3     | 18.17        | -520.0E-12   |
| 40 | 3.16         | 16.4E-9     | 26.8E-9      | 842.8E-3   | 137.6E-3     | 18.06        | -680.0E-12   | 3.16                  | 17.4E-9     | 31.6E-9      | 843.6E-3   | 138.2E-3     | 18.16        | 4.0E-9       |
| 41 | 3.16         | 16.4E-9     | 26.0E-9      | 843.2E-3   | 136.4E-3     | 18.14        | -520.0E-12   | 3.16                  | 19.5E-9     | 30.0E-9      | 844.0E-3   | 137.2E-3     | 18.20        | -880.0E-12   |
| 42 | 3.15         | 16.9E-9     | 25.6E-9      | 843.6E-3   | 133.3E-3     | 18.10        | 1.6E-9       | 3.15                  | 18.4E-9     | 32.4E-9      | 843.2E-3   | 134.5E-3     | 18.23        | 2.6E-9       |
| 43 | 3.16         | 16.4E-9     | 26.8E-9      | 844.0E-3   | 133.5E-3     | 18.16        | -80.0E-12    | 3.14                  | 16.4E-9     | 34.4E-9      | 841.6E-3   | 137.1E-3     | 18.24        | -2.1E-9      |
| 44 | 3.16         | 20.5E-9     | 28.0E-9      | 843.6E-3   | 132.3E-3     | 18.14        | -760.0E-12   | 3.15                  | 17.4E-9     | 34.8E-9      | 842.8E-3   | 133.8E-3     | 18.20        | 9.3E-9       |
| 45 | 3.15         | 16.4E-9     | 26.8E-9      | 843.2E-3   | 132.8E-3     | 18.19        | 1.2E-9       | 3.14                  | 20.5E-9     | 33.2E-9      | 843.2E-3   | 133.8E-3     | 18.23        | 4.2E-9       |
| 46 | 3.15         | 13.8E-9     | 27.6E-9      | 843.6E-3   | 130.7E-3     | 18.12        | 280.0E-12    | 3.14                  | 16.4E-9     | 33.6E-9      | 842.4E-3   | 132.2E-3     | 18.19        | 9.5E-9       |
| 47 | 3.16         | 15.4E-9     | 28.4E-9      | 844.0E-3   | 131.8E-3     | 18.13        | 4.1E-9       | 3.15                  | 16.4E-9     | 32.8E-9      | 842.4E-3   | 132.9E-3     | 18.16        | 2.4E-9       |
| 48 | 3.15         | 14.3E-9     | 26.0E-9      | 843.6E-3   | 134.7E-3     | 18.14        | 1.7E-9       | 3.14                  | 17.9E-9     | 31.6E-9      | 845.6E-3   | 136.6E-3     | 18.14        | -480.0E-12   |
| 49 | 3.18         | 12.3E-9     | 24.4E-9      | 844.4E-3   | 136.7E-3     | 18.12        | 14.9E-9      | 3.16                  | 14.9E-9     | 31.6E-9      | 842.4E-3   | 138.9E-3     | 18.10        | 21.3E-9      |
| 50 | 3.25         | 13.3E-9     | 26.8E-9      | 844.0E-3   | 134.9E-3     | 18.18        | 6.2E-9       | 3.24                  | 17.4E-9     | 33.2E-9      | 842.8E-3   | 137.4E-3     | 18.22        | -1.3E-9      |

**Temperature Cycle**  
**Mil-Std 750 M 1051, 100 Cycles,  $\Delta T_j$  -55°C to 175°C**  
**Lot 6701**

| SN | Initials     |             |              |            |             |              |              | 100 Cycles End Points |             |              |            |             |              |              |
|----|--------------|-------------|--------------|------------|-------------|--------------|--------------|-----------------------|-------------|--------------|------------|-------------|--------------|--------------|
|    | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSN<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA          | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSN<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 51 | 3.25         | 23.6E-9     | 28.0E-9      | 844.8E-3   | 133.4E-3    | 18.26        | -840.0E-12   | 3.24                  | 18.4E-9     | 30.8E-9      | 844.8E-3   | 134.3E-3    | 18.35        | -1.4E-9      |
| 52 | 3.24         | 16.6E-9     | 26.0E-9      | 844.8E-3   | 135.0E-3    | 18.16        | 6.3E-9       | 3.23                  | 16.4E-9     | 33.6E-9      | 843.6E-3   | 136.8E-3    | 18.20        | -800.0E-12   |
| 53 | 3.25         | 17.4E-9     | 30.0E-9      | 844.4E-3   | 134.5E-3    | 18.24        | 2.6E-9       | 3.23                  | 16.4E-9     | 37.2E-9      | 842.8E-3   | 137.0E-3    | 18.29        | -760.0E-12   |
| 54 | 3.24         | 10.2E-9     | 28.4E-9      | 844.4E-3   | 136.7E-3    | 18.10        | -200.0E-12   | 3.23                  | 16.4E-9     | 32.8E-9      | 844.0E-3   | 138.3E-3    | 18.13        | 6.0E-9       |
| 55 | 3.23         | 12.3E-9     | 26.4E-9      | 844.8E-3   | 135.7E-3    | 18.11        | 4.7E-9       | 3.23                  | 14.3E-9     | 30.8E-9      | 844.4E-3   | 135.8E-3    | 18.16        | -960.0E-12   |
| 56 | 3.27         | 12.5E-9     | 31.2E-9      | 844.4E-3   | 140.3E-3    | 18.13        | 15.8E-9      | 3.26                  | 11.8E-9     | 34.8E-9      | 844.4E-3   | 140.2E-3    | 18.18        | -1.0E-9      |
| 57 | 3.24         | 10.8E-9     | 28.4E-9      | 844.4E-3   | 137.5E-3    | 18.06        | 18.4E-9      | 3.24                  | 13.8E-9     | 32.8E-9      | 844.4E-3   | 137.8E-3    | 18.17        | -2.8E-9      |
| 58 | 3.22         | 13.3E-9     | 28.0E-9      | 843.6E-3   | 137.7E-3    | 18.12        | 640.0E-12    | 3.21                  | 15.4E-9     | 32.8E-9      | 844.0E-3   | 137.3E-3    | 18.16        | -1.5E-9      |
| 59 | 3.23         | 10.5E-9     | 27.6E-9      | 844.4E-3   | 138.1E-3    | 18.11        | 480.0E-12    | 3.23                  | 15.4E-9     | 31.6E-9      | 844.4E-3   | 137.6E-3    | 18.11        | -1.1E-9      |
| 60 | 3.21         | 14.6E-9     | 26.8E-9      | 844.0E-3   | 136.9E-3    | 18.08        | 2.1E-9       | 3.21                  | 16.4E-9     | 30.0E-9      | 844.0E-3   | 137.2E-3    | 18.16        | -920.0E-12   |
| 61 | 3.22         | 16.4E-9     | 30.4E-9      | 844.8E-3   | 136.3E-3    | 18.05        | 1.6E-9       | 3.22                  | 13.3E-9     | 34.8E-9      | 844.8E-3   | 136.2E-3    | 18.14        | -1.5E-9      |
| 62 | 3.20         | 14.6E-9     | 26.8E-9      | 843.6E-3   | 135.9E-3    | 18.08        | -2.0E-9      | 3.20                  | 19.7E-9     | 30.0E-9      | 844.4E-3   | 135.8E-3    | 18.18        | -1.5E-9      |
| 63 | 3.17         | 16.4E-9     | 26.0E-9      | 844.8E-3   | 135.8E-3    | 18.00        | -11.0E-9     | 3.17                  | 16.4E-9     | 30.4E-9      | 844.0E-3   | 135.8E-3    | 18.06        | -680.0E-12   |
| 64 | 3.17         | 14.6E-9     | 24.4E-9      | 845.2E-3   | 135.0E-3    | 18.04        | -640.0E-12   | 3.17                  | 16.4E-9     | 28.0E-9      | 844.4E-3   | 135.0E-3    | 18.05        | -1.2E-9      |
| 65 | 3.18         | 15.4E-9     | 24.4E-9      | 843.6E-3   | 136.6E-3    | 17.98        | -1.4E-9      | 3.18                  | 16.6E-9     | 26.4E-9      | 844.4E-3   | 135.8E-3    | 18.05        | -2.2E-9      |
| 66 | 3.17         | 16.4E-9     | 23.6E-9      | 844.4E-3   | 135.9E-3    | 17.99        | -560.0E-12   | 3.17                  | 16.9E-9     | 27.6E-9      | 845.6E-3   | 135.3E-3    | 18.04        | -1.4E-9      |
| 67 | 3.19         | 13.8E-9     | 22.8E-9      | 843.6E-3   | 137.6E-3    | 18.00        | 400.0E-12    | 3.19                  | 17.4E-9     | 27.6E-9      | 844.4E-3   | 137.1E-3    | 18.02        | 3.3E-9       |
| 68 | 3.18         | 15.4E-9     | 24.0E-9      | 843.6E-3   | 137.9E-3    | 18.04        | -1.0E-9      | 3.17                  | 16.4E-9     | 30.8E-9      | 842.8E-3   | 138.6E-3    | 18.01        | -640.0E-12   |
| 69 | 3.20         | 14.3E-9     | 24.0E-9      | 844.0E-3   | 139.0E-3    | 18.01        | 1.1E-9       | 3.20                  | 17.9E-9     | 27.2E-9      | 844.0E-3   | 138.5E-3    | 18.07        | -1.2E-9      |
| 70 | 3.20         | 13.3E-9     | 22.4E-9      | 844.4E-3   | 137.5E-3    | 18.01        | -80.0E-12    | 3.19                  | 14.9E-9     | 26.8E-9      | 845.2E-3   | 137.4E-3    | 18.06        | -960.0E-12   |
| 71 | 3.21         | 14.3E-9     | 23.2E-9      | 843.6E-3   | 140.1E-3    | 17.99        | 480.0E-12    | 3.21                  | 14.9E-9     | 27.2E-9      | 844.0E-3   | 139.3E-3    | 18.07        | 29.1E-9      |
| 72 | 3.20         | 12.8E-9     | 23.2E-9      | 843.2E-3   | 139.8E-3    | 17.98        | -1.6E-9      | 3.20                  | 17.4E-9     | 27.2E-9      | 844.0E-3   | 139.1E-3    | 18.02        | 5.7E-9       |
| 73 | 3.21         | 13.3E-9     | 24.8E-9      | 844.0E-3   | 140.6E-3    | 18.01        | 6.6E-9       | 3.22                  | 14.9E-9     | 28.4E-9      | 844.0E-3   | 139.7E-3    | 18.02        | 680.0E-12    |
| 74 | 3.25         | 9.2E-9      | 26.0E-9      | 843.6E-3   | 139.2E-3    | 18.01        | 160.0E-12    | 3.24                  | 13.3E-9     | 31.6E-9      | 844.0E-3   | 139.3E-3    | 18.07        | -1.9E-9      |
| 75 | 3.24         | 11.3E-9     | 24.8E-9      | 844.8E-3   | 139.6E-3    | 18.00        | 1.4E-9       | 3.24                  | 12.3E-9     | 29.6E-9      | 844.0E-3   | 139.1E-3    | 18.07        | -160.0E-12   |
| 76 | 3.28         | 8.7E-9      | 29.2E-9      | 843.6E-3   | 138.5E-3    | 17.95        | 6.8E-9       | 3.28                  | 10.2E-9     | 31.2E-9      | 846.8E-3   | 137.7E-3    | 17.99        | 9.8E-9       |
| 77 | 3.25         | 9.2E-9      | 27.6E-9      | 844.4E-3   | 139.5E-3    | 17.98        | 25.2E-9      | 3.25                  | 13.3E-9     | 30.8E-9      | 846.4E-3   | 140.2E-3    | 18.08        | 2.4E-9       |

**Temperature Cycle**  
**Mil-Std 750 M 1051, 100 Cycles,  $\Delta T_j$  -55°C to 175°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |                |              |              | 100 Cycles End Points |             |              |            |                |              |              |
|-----|--------------|-------------|--------------|------------|----------------|--------------|--------------|-----------------------|-------------|--------------|------------|----------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS(on)<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA          | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS(on)<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 321 | 3.34         | 23.9E-9     | 28.5E-9      | 845.8E-3   | 140.9E-3       | 19.23        | -1.2E-9      | 3.33                  | 22.5E-9     | 27.2E-9      | 845.2E-3   | 139.9E-3       | 19.13        | -2.1E-9      |
| 322 | 3.40         | 20.3E-9     | 26.5E-9      | 847.3E-3   | 135.1E-3       | 17.84        | -1.3E-9      | 3.39                  | 19.5E-9     | 25.6E-9      | 846.8E-3   | 134.9E-3       | 17.77        | -1.9E-9      |
| 323 | 3.41         | 17.5E-9     | 25.3E-9      | 847.6E-3   | 138.7E-3       | 18.98        | -165.3E-12   | 3.40                  | 16.4E-9     | 24.0E-9      | 846.8E-3   | 138.6E-3       | 18.79        | -1.6E-9      |
| 324 | 3.41         | 16.2E-9     | 28.9E-9      | 845.7E-3   | 142.3E-3       | 18.99        | 144.0E-12    | 3.39                  | 15.4E-9     | 27.6E-9      | 844.8E-3   | 141.8E-3       | 18.83        | -640.0E-12   |
| 325 | 3.42         | 18.3E-9     | 25.3E-9      | 850.6E-3   | 138.5E-3       | 18.75        | -1.1E-9      | 3.40                  | 17.4E-9     | 24.8E-9      | 849.6E-3   | 138.3E-3       | 18.58        | -1.6E-9      |
| 326 | 3.44         | 19.1E-9     | 26.3E-9      | 847.1E-3   | 138.2E-3       | 18.79        | -1.3E-9      | 3.41                  | 17.9E-9     | 25.2E-9      | 846.8E-3   | 137.7E-3       | 18.67        | -2.3E-9      |
| 327 | 3.44         | 19.3E-9     | 25.7E-9      | 847.7E-3   | 137.9E-3       | 18.48        | 1.6E-9       | 3.42                  | 18.7E-9     | 24.8E-9      | 846.8E-3   | 136.9E-3       | 18.34        | 280.0E-12    |
| 328 | 3.43         | 20.9E-9     | 26.7E-9      | 846.9E-3   | 138.1E-3       | 18.60        | -1.2E-9      | 3.42                  | 20.0E-9     | 25.2E-9      | 846.4E-3   | 137.8E-3       | 18.47        | -2.2E-9      |
| 329 | 3.43         | 19.6E-9     | 25.8E-9      | 847.7E-3   | 137.4E-3       | 18.37        | -1.1E-9      | 3.42                  | 18.9E-9     | 24.4E-9      | 846.8E-3   | 136.2E-3       | 18.28        | -1.7E-9      |
| 330 | 3.41         | 19.4E-9     | 27.6E-9      | 846.6E-3   | 136.8E-3       | 18.09        | -1.6E-9      | 3.41                  | 18.9E-9     | 26.0E-9      | 846.0E-3   | 135.5E-3       | 18.08        | -2.5E-9      |
| 331 | 3.41         | 21.7E-9     | 26.6E-9      | 847.4E-3   | 134.5E-3       | 18.20        | -1.3E-9      | 3.39                  | 21.0E-9     | 25.2E-9      | 846.8E-3   | 134.3E-3       | 18.05        | -2.0E-9      |
| 332 | 3.42         | 20.0E-9     | 26.3E-9      | 847.2E-3   | 135.9E-3       | 18.26        | -1.7E-9      | 3.40                  | 18.9E-9     | 24.8E-9      | 846.4E-3   | 134.9E-3       | 18.11        | -2.6E-9      |
| 333 | 3.38         | 22.3E-9     | 26.6E-9      | 847.6E-3   | 133.5E-3       | 17.93        | -96.1E-12    | 3.38                  | 21.5E-9     | 25.6E-9      | 846.8E-3   | 133.1E-3       | 17.89        | -880.0E-12   |
| 334 | 3.37         | 26.9E-9     | 28.7E-9      | 846.1E-3   | 135.8E-3       | 17.84        | -1.4E-9      | 3.36                  | 25.6E-9     | 27.6E-9      | 845.2E-3   | 134.5E-3       | 17.82        | -2.6E-9      |
| 335 | 3.40         | 21.7E-9     | 27.5E-9      | 847.1E-3   | 133.4E-3       | 17.94        | -982.2E-12   | 3.38                  | 20.5E-9     | 26.8E-9      | 846.0E-3   | 132.8E-3       | 17.87        | -2.2E-9      |
| 336 | 3.43         | 16.8E-9     | 27.3E-9      | 847.8E-3   | 133.7E-3       | 17.83        | 75.6E-12     | 3.42                  | 15.4E-9     | 26.8E-9      | 846.8E-3   | 133.2E-3       | 17.76        | -520.0E-12   |
| 337 | 3.46         | 17.3E-9     | 27.3E-9      | 846.9E-3   | 131.8E-3       | 18.10        | 3.7E-9       | 3.44                  | 16.6E-9     | 26.0E-9      | 846.4E-3   | 131.7E-3       | 17.95        | 2.3E-9       |
| 338 | 3.46         | 14.9E-9     | 27.1E-9      | 846.9E-3   | 133.3E-3       | 18.00        | 351.2E-12    | 3.44                  | 14.3E-9     | 26.0E-9      | 846.4E-3   | 132.3E-3       | 17.86        | -800.0E-12   |
| 339 | 3.48         | 18.2E-9     | 27.3E-9      | 847.8E-3   | 131.8E-3       | 18.25        | -291.4E-12   | 3.48                  | 17.4E-9     | 26.0E-9      | 847.2E-3   | 130.7E-3       | 18.22        | -960.0E-12   |
| 340 | 3.48         | 14.2E-9     | 27.0E-9      | 849.4E-3   | 132.4E-3       | 18.32        | 5.8E-9       | 3.46                  | 13.3E-9     | 26.0E-9      | 848.4E-3   | 131.1E-3       | 18.14        | 4.7E-9       |
| 341 | 3.43         | 17.2E-9     | 30.9E-9      | 848.0E-3   | 131.1E-3       | 19.02        | 517.6E-12    | 3.42                  | 16.4E-9     | 29.6E-9      | 847.2E-3   | 130.6E-3       | 18.83        | -760.0E-12   |
| 342 | 3.47         | 15.5E-9     | 27.3E-9      | 847.0E-3   | 131.1E-3       | 18.87        | 2.1E-9       | 3.45                  | 14.9E-9     | 26.0E-9      | 846.4E-3   | 130.2E-3       | 18.82        | 680.0E-12    |
| 343 | 3.43         | 16.7E-9     | 28.1E-9      | 847.9E-3   | 131.2E-3       | 18.74        | 3.3E-9       | 3.41                  | 15.4E-9     | 27.2E-9      | 847.2E-3   | 131.1E-3       | 18.62        | 2.0E-9       |
| 344 | 3.43         | 18.4E-9     | 28.3E-9      | 848.7E-3   | 132.2E-3       | 18.96        | 555.5E-12    | 3.41                  | 17.4E-9     | 27.6E-9      | 847.6E-3   | 131.1E-3       | 18.78        | -480.0E-12   |
| 345 | 3.43         | 18.9E-9     | 30.5E-9      | 846.2E-3   | 132.9E-3       | 18.11        | 812.0E-12    | 3.41                  | 17.9E-9     | 29.2E-9      | 845.6E-3   | 132.0E-3       | 18.05        | -440.0E-12   |

**Temperature Cycle**  
**Mil-Std 750 M 1051, 100 Cycles,  $\Delta T_j$  -55°C to 175°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |              |              |              | 100 Cycles End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|-----------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA          | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 346 | 3.43         | 20.0E-9     | 28.4E-9      | 846.5E-3   | 132.4E-3     | 18.48        | 1.9E-9       | 3.42                  | 18.4E-9     | 26.8E-9      | 845.6E-3   | 131.6E-3     | 18.31        | 800.0E-12    |
| 347 | 3.39         | 15.2E-9     | 27.2E-9      | 844.9E-3   | 135.2E-3     | 18.01        | 11.4E-9      | 3.37                  | 14.3E-9     | 26.8E-9      | 844.4E-3   | 134.3E-3     | 17.86        | 10.1E-9      |
| 348 | 3.37         | 16.8E-9     | 264.3E-9     | 846.7E-3   | 133.2E-3     | 18.03        | 5.1E-9       | 3.37                  | 15.4E-9     | 263.6E-9     | 846.0E-3   | 132.5E-3     | 17.92        | 3.6E-9       |
| 349 | 3.37         | 15.4E-9     | 27.2E-9      | 848.2E-3   | 133.4E-3     | 17.89        | 403.1E-12    | 3.37                  | 14.9E-9     | 26.4E-9      | 847.6E-3   | 133.3E-3     | 17.87        | -440.0E-12   |
| 350 | 3.38         | 16.4E-9     | 27.5E-9      | 849.6E-3   | 135.2E-3     | 17.93        | 1.1E-9       | 3.37                  | 15.4E-9     | 26.8E-9      | 849.2E-3   | 134.1E-3     | 17.89        | 280.0E-12    |
| 351 | 3.38         | 17.8E-9     | 26.5E-9      | 849.5E-3   | 134.3E-3     | 18.08        | 3.9E-9       | 3.36                  | 16.4E-9     | 26.0E-9      | 848.4E-3   | 134.0E-3     | 17.95        | 3.0E-9       |
| 352 | 3.38         | 17.4E-9     | 28.4E-9      | 846.6E-3   | 136.2E-3     | 18.07        | 9.5E-9       | 3.37                  | 16.9E-9     | 27.6E-9      | 845.6E-3   | 135.3E-3     | 17.99        | 8.8E-9       |
| 353 | 3.38         | 17.7E-9     | 29.0E-9      | 847.6E-3   | 135.2E-3     | 18.11        | -1.7E-9      | 3.36                  | 16.4E-9     | 27.6E-9      | 847.2E-3   | 134.9E-3     | 18.05        | -2.3E-9      |
| 354 | 3.36         | 19.9E-9     | 29.1E-9      | 847.8E-3   | 135.8E-3     | 18.13        | -346.4E-12   | 3.35                  | 18.4E-9     | 27.6E-9      | 847.2E-3   | 135.5E-3     | 18.02        | -1.4E-9      |
| 355 | 3.37         | 17.2E-9     | 26.6E-9      | 848.3E-3   | 136.9E-3     | 18.24        | 45.7E-12     | 3.36                  | 16.4E-9     | 26.0E-9      | 848.0E-3   | 136.0E-3     | 18.11        | -560.0E-12   |
| 356 | 3.39         | 14.8E-9     | 28.4E-9      | 847.6E-3   | 137.4E-3     | 18.29        | 717.8E-12    | 3.38                  | 14.3E-9     | 26.8E-9      | 847.2E-3   | 136.2E-3     | 18.12        | -640.0E-12   |
| 357 | 3.38         | 15.0E-9     | 28.2E-9      | 847.1E-3   | 136.8E-3     | 18.12        | -1.3E-9      | 3.38                  | 14.3E-9     | 27.2E-9      | 846.4E-3   | 135.7E-3     | 18.10        | -1.8E-9      |
| 358 | 3.39         | 17.1E-9     | 30.7E-9      | 848.3E-3   | 136.7E-3     | 18.37        | -393.3E-12   | 3.38                  | 16.4E-9     | 29.2E-9      | 847.6E-3   | 136.6E-3     | 18.20        | -1.8E-9      |
| 359 | 3.40         | 15.2E-9     | 26.8E-9      | 849.1E-3   | 136.7E-3     | 18.22        | -2.6E-9      | 3.39                  | 14.3E-9     | 26.4E-9      | 848.4E-3   | 136.4E-3     | 18.19        | -3.0E-9      |
| 360 | 3.39         | 17.1E-9     | 28.4E-9      | 851.1E-3   | 137.1E-3     | 18.78        | -2.0E-9      | 3.37                  | 16.4E-9     | 27.6E-9      | 850.4E-3   | 136.8E-3     | 18.74        | -2.5E-9      |
| 361 | 3.32         | 21.4E-9     | 29.2E-9      | 850.9E-3   | 137.1E-3     | 19.21        | -221.6E-12   | 3.31                  | 20.0E-9     | 28.4E-9      | 850.0E-3   | 136.7E-3     | 19.14        | -1.0E-9      |
| 362 | 3.33         | 15.1E-9     | 28.8E-9      | 849.6E-3   | 138.3E-3     | 19.16        | -1.4E-9      | 3.31                  | 14.6E-9     | 27.6E-9      | 849.2E-3   | 137.0E-3     | 19.14        | -2.7E-9      |
| 363 | 3.31         | 17.4E-9     | 30.1E-9      | 845.7E-3   | 138.3E-3     | 19.44        | 5.3E-9       | 3.30                  | 16.4E-9     | 29.2E-9      | 844.8E-3   | 137.1E-3     | 19.42        | 4.7E-9       |
| 364 | 3.42         | 19.0E-9     | 30.1E-9      | 847.9E-3   | 139.6E-3     | 19.17        | 2.6E-9       | 3.40                  | 17.7E-9     | 28.8E-9      | 846.8E-3   | 138.3E-3     | 19.01        | 1.5E-9       |
| 365 | 3.38         | 17.7E-9     | 28.0E-9      | 849.4E-3   | 139.3E-3     | 19.15        | 11.2E-9      | 3.36                  | 16.4E-9     | 27.6E-9      | 848.4E-3   | 138.1E-3     | 19.14        | 10.2E-9      |
| 366 | 3.33         | 15.8E-9     | 27.9E-9      | 847.3E-3   | 137.2E-3     | 19.44        | 3.4E-9       | 3.31                  | 14.3E-9     | 27.2E-9      | 846.8E-3   | 137.2E-3     | 19.38        | 2.0E-9       |
| 367 | 3.28         | 21.0E-9     | 28.8E-9      | 848.1E-3   | 137.2E-3     | 19.61        | -6.7E-9      | 3.26                  | 20.5E-9     | 27.2E-9      | 847.6E-3   | 137.0E-3     | 19.56        | -7.1E-9      |
| 368 | 3.31         | 17.2E-9     | 30.0E-9      | 847.6E-3   | 139.5E-3     | 19.35        | 1.0E-9       | 3.30                  | 16.4E-9     | 28.4E-9      | 847.2E-3   | 138.7E-3     | 19.21        | 280.0E-12    |
| 369 | 3.34         | 19.1E-9     | 28.8E-9      | 847.2E-3   | 138.0E-3     | 18.94        | 19.3E-9      | 3.34                  | 18.4E-9     | 28.0E-9      | 846.8E-3   | 137.5E-3     | 18.78        | 18.2E-9      |
| 370 | 3.27         | 21.2E-9     | 29.4E-9      | 846.4E-3   | 138.8E-3     | 19.35        | -1.7E-9      | 3.26                  | 20.5E-9     | 28.8E-9      | 846.0E-3   | 138.1E-3     | 19.22        | -2.4E-9      |



**Temperature Cycle**  
**Mil-Std 750 M 1051, 100 Cycles,  $\Delta T_j$  -55°C to 175°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |              |              |              | 100 Cycles End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|-----------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA          | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 371 | 3.42         | 19.3E-9     | 27.2E-9      | 848.1E-3   | 138.6E-3     | 18.35        | -1.4E-9      | 3.41                  | 18.4E-9     | 26.0E-9      | 847.6E-3   | 138.1E-3     | 18.26        | -2.5E-9      |
| 372 | 3.38         | 18.0E-9     | 157.3E-9     | 846.9E-3   | 138.1E-3     | 18.61        | -1.6E-9      | 3.36                  | 17.4E-9     | 156.4E-9     | 846.0E-3   | 137.8E-3     | 18.43        | -2.1E-9      |
| 373 | 3.44         | 20.7E-9     | 27.3E-9      | 849.7E-3   | 138.0E-3     | 18.50        | -74.1E-12    | 3.43                  | 19.5E-9     | 26.0E-9      | 848.8E-3   | 137.1E-3     | 18.41        | -1.0E-9      |
| 374 | 3.30         | 23.6E-9     | 29.1E-9      | 849.1E-3   | 137.9E-3     | 19.36        | -930.3E-12   | 3.30                  | 22.5E-9     | 27.6E-9      | 848.4E-3   | 137.4E-3     | 19.27        | -2.0E-9      |
| 375 | 3.39         | 22.0E-9     | 27.5E-9      | 847.7E-3   | 137.3E-3     | 18.88        | -582.1E-12   | 3.39                  | 21.0E-9     | 26.0E-9      | 847.2E-3   | 136.8E-3     | 18.76        | -1.7E-9      |
| 376 | 3.30         | 23.7E-9     | 94.5E-9      | 847.2E-3   | 138.5E-3     | 19.50        | 157.5E-12    | 3.30                  | 22.5E-9     | 94.0E-9      | 846.4E-3   | 137.2E-3     | 19.44        | -800.0E-12   |
| 377 | 3.30         | 24.4E-9     | 27.7E-9      | 848.1E-3   | 137.9E-3     | 19.51        | 839.4E-12    | 3.28                  | 23.0E-9     | 27.2E-9      | 847.6E-3   | 137.3E-3     | 19.48        | -640.0E-12   |
| 378 | 3.20         | 26.6E-9     | 27.6E-9      | 847.9E-3   | 136.8E-3     | 20.17        | -1.6E-9      | 3.20                  | 26.1E-9     | 27.2E-9      | 847.6E-3   | 136.8E-3     | 19.98        | -2.4E-9      |
| 379 | 3.33         | 22.1E-9     | 29.7E-9      | 849.0E-3   | 139.4E-3     | 19.43        | -48.5E-12    | 3.32                  | 21.5E-9     | 29.2E-9      | 848.4E-3   | 138.3E-3     | 19.40        | -1.4E-9      |
| 380 | 3.39         | 17.3E-9     | 24.9E-9      | 847.9E-3   | 135.1E-3     | 18.04        | -367.2E-12   | 3.39                  | 16.4E-9     | 24.4E-9      | 847.2E-3   | 134.4E-3     | 17.96        | -1.8E-9      |
| 381 | 3.39         | 16.2E-9     | 26.1E-9      | 849.5E-3   | 136.0E-3     | 18.13        | 418.9E-12    | 3.39                  | 14.9E-9     | 25.2E-9      | 848.4E-3   | 135.3E-3     | 18.10        | -80.0E-12    |
| 382 | 3.43         | 18.2E-9     | 25.3E-9      | 847.5E-3   | 138.1E-3     | 18.18        | 1.4E-9       | 3.42                  | 17.4E-9     | 24.8E-9      | 847.2E-3   | 137.7E-3     | 18.13        | 920.0E-12    |
| 383 | 3.47         | 19.1E-9     | 25.8E-9      | 849.5E-3   | 136.1E-3     | 17.73        | 852.0E-12    | 3.46                  | 17.9E-9     | 24.4E-9      | 848.8E-3   | 135.4E-3     | 17.62        | -560.0E-12   |
| 384 | 3.48         | 17.6E-9     | 25.4E-9      | 849.5E-3   | 136.1E-3     | 17.83        | -2.3E-9      | 3.48                  | 16.4E-9     | 24.4E-9      | 849.2E-3   | 135.9E-3     | 17.68        | -2.8E-9      |
| 385 | 3.48         | 17.4E-9     | 25.9E-9      | 849.7E-3   | 134.4E-3     | 17.78        | 111.9E-12    | 3.46                  | 16.4E-9     | 24.4E-9      | 848.8E-3   | 133.8E-3     | 17.69        | -800.0E-12   |
| 386 | 3.48         | 17.0E-9     | 26.6E-9      | 849.2E-3   | 137.3E-3     | 17.76        | -476.3E-12   | 3.46                  | 16.4E-9     | 25.2E-9      | 848.8E-3   | 135.9E-3     | 17.72        | -1.0E-9      |
| 387 | 3.47         | 17.0E-9     | 24.7E-9      | 847.5E-3   | 135.6E-3     | 17.80        | -1.1E-9      | 3.46                  | 16.4E-9     | 23.2E-9      | 847.2E-3   | 134.3E-3     | 17.71        | -1.8E-9      |
| 388 | 3.49         | 15.5E-9     | 24.7E-9      | 849.3E-3   | 134.0E-3     | 17.66        | 133.8E-12    | 3.47                  | 14.9E-9     | 23.2E-9      | 848.8E-3   | 133.2E-3     | 17.63        | -720.0E-12   |
| 389 | 3.47         | 17.3E-9     | 24.4E-9      | 847.7E-3   | 133.9E-3     | 17.62        | 453.2E-12    | 3.46                  | 16.4E-9     | 23.6E-9      | 847.2E-3   | 133.8E-3     | 17.62        | -600.0E-12   |
| 390 | 3.50         | 17.8E-9     | 24.8E-9      | 852.9E-3   | 133.4E-3     | 17.80        | 1.7E-9       | 3.50                  | 16.4E-9     | 23.6E-9      | 852.4E-3   | 133.2E-3     | 17.64        | 400.0E-12    |
| 391 | 3.47         | 15.4E-9     | 24.6E-9      | 851.2E-3   | 133.8E-3     | 17.67        | -738.7E-12   | 3.47                  | 14.9E-9     | 24.0E-9      | 850.8E-3   | 132.9E-3     | 17.64        | -1.6E-9      |
| 392 | 3.53         | 15.4E-9     | 25.1E-9      | 854.5E-3   | 131.7E-3     | 17.66        | 389.3E-12    | 3.52                  | 14.3E-9     | 24.4E-9      | 853.6E-3   | 131.2E-3     | 17.63        | -480.0E-12   |
| 393 | 3.53         | 15.7E-9     | 25.1E-9      | 853.2E-3   | 132.7E-3     | 17.78        | 595.4E-12    | 3.51                  | 14.9E-9     | 24.4E-9      | 852.8E-3   | 131.9E-3     | 17.66        | -600.0E-12   |
| 394 | 3.51         | 16.3E-9     | 26.5E-9      | 849.1E-3   | 132.3E-3     | 17.87        | -1.1E-9      | 3.50                  | 14.9E-9     | 25.6E-9      | 848.0E-3   | 131.4E-3     | 17.84        | -2.0E-9      |
| 395 | 3.59         | 17.4E-9     | 24.6E-9      | 848.5E-3   | 130.8E-3     | 17.85        | 11.2E-9      | 3.57                  | 16.4E-9     | 23.6E-9      | 848.0E-3   | 129.9E-3     | 17.68        | 10.5E-9      |
| 396 | 3.50         | 17.6E-9     | 27.7E-9      | 848.6E-3   | 132.5E-3     | 18.08        | 1.9E-9       | 3.48                  | 16.4E-9     | 26.4E-9      | 847.6E-3   | 132.4E-3     | 17.93        | 1.5E-9       |
| 397 | 3.48         | 17.3E-9     | 78.6E-9      | 848.4E-3   | 132.4E-3     | 17.92        | -1.3E-9      | 3.48                  | 16.4E-9     | 77.2E-9      | 848.0E-3   | 131.8E-3     | 17.92        | -2.2E-9      |

**Temperature Cycle**  
**Mil-Std 750 M 1051, 100 Cycles,  $\Delta T_j$  -55°C to 175°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |               |              |              | 100 Cycles End Points |             |              |            |               |              |              |
|-----|--------------|-------------|--------------|------------|---------------|--------------|--------------|-----------------------|-------------|--------------|------------|---------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS ON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA          | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS ON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 641 | 3.20         | 15.4E-9     | 34.0E-9      | 847.2E-3   | 131.9E-3      | 18.60        | -8.9E-9      | 3.16                  | 14.9E-9     | 38.8E-9      | 846.4E-3   | 132.4E-3      | 18.54        | -8.2E-9      |
| 642 | 3.20         | 14.3E-9     | 34.0E-9      | 846.8E-3   | 130.4E-3      | 18.70        | -6.2E-9      | 3.14                  | 14.3E-9     | 37.2E-9      | 845.2E-3   | 130.3E-3      | 18.61        | -8.2E-9      |
| 643 | 3.20         | 13.3E-9     | 39.6E-9      | 846.8E-3   | 126.1E-3      | 18.80        | 9.9E-9       | 3.16                  | 16.9E-9     | 45.6E-9      | 844.8E-3   | 126.7E-3      | 18.74        | -8.8E-9      |
| 644 | 3.20         | 15.4E-9     | 34.4E-9      | 847.2E-3   | 129.3E-3      | 18.80        | -10.6E-9     | 3.15                  | 16.4E-9     | 266.0E-9     | 846.8E-3   | 128.6E-3      | 18.66        | -7.4E-9      |
| 645 | 3.20         | 18.4E-9     | 37.6E-9      | 847.2E-3   | 123.8E-3      | 18.80        | -7.7E-9      | 3.17                  | 16.9E-9     | 42.8E-9      | 845.2E-3   | 123.9E-3      | 18.71        | -7.8E-9      |
| 646 | 3.20         | 16.9E-9     | 39.6E-9      | 846.8E-3   | 124.1E-3      | 18.70        | -47.5E-9     | 3.17                  | 16.4E-9     | 41.2E-9      | 846.4E-3   | 123.3E-3      | 18.70        | -8.2E-9      |
| 647 | 3.20         | 12.3E-9     | 39.6E-9      | 847.2E-3   | 124.7E-3      | 18.50        | -7.5E-9      | 3.17                  | 14.3E-9     | 42.0E-9      | 846.8E-3   | 124.2E-3      | 18.38        | -6.8E-9      |
| 648 | 3.20         | 14.3E-9     | 40.4E-9      | 848.4E-3   | 125.0E-3      | 18.60        | -8.8E-9      | 3.16                  | 16.4E-9     | 44.0E-9      | 847.6E-3   | 124.5E-3      | 18.53        | -6.6E-9      |
| 649 | 3.30         | 10.8E-9     | 37.2E-9      | 846.4E-3   | 118.7E-3      | 18.10        | -6.4E-9      | 3.25                  | 10.2E-9     | 38.4E-9      | 844.8E-3   | 118.4E-3      | 18.13        | -6.2E-9      |
| 650 | 3.20         | 13.3E-9     | 45.2E-9      | 847.2E-3   | 121.4E-3      | 18.30        | -7.3E-9      | 3.21                  | 14.3E-9     | 50.8E-9      | 846.8E-3   | 121.2E-3      | 18.24        | -6.0E-9      |
| 651 | 3.20         | 11.3E-9     | 43.6E-9      | 846.0E-3   | 122.0E-3      | 18.40        | -6.9E-9      | 3.21                  | 12.5E-9     | 45.6E-9      | 846.4E-3   | 121.5E-3      | 18.37        | -5.6E-9      |
| 652 | 3.20         | 10.2E-9     | 49.2E-9      | 846.4E-3   | 120.5E-3      | 18.30        | -6.4E-9      | 3.23                  | 11.3E-9     | 51.6E-9      | 847.2E-3   | 120.1E-3      | 18.22        | -7.0E-9      |
| 653 | 3.20         | 14.3E-9     | 42.0E-9      | 846.0E-3   | 123.2E-3      | 18.80        | -8.3E-9      | 3.16                  | 13.6E-9     | 44.8E-9      | 845.6E-3   | 122.8E-3      | 18.71        | -7.4E-9      |
| 654 | 3.10         | 12.8E-9     | 35.2E-9      | 846.8E-3   | 130.2E-3      | 18.80        | -8.5E-9      | 3.14                  | 14.3E-9     | 36.0E-9      | 846.4E-3   | 129.5E-3      | 18.76        | -7.9E-9      |
| 655 | 3.20         | 13.8E-9     | 44.4E-9      | 844.8E-3   | 123.7E-3      | 18.80        | -9.7E-9      | 3.15                  | 15.4E-9     | 45.2E-9      | 845.6E-3   | 122.6E-3      | 18.72        | -5.0E-9      |
| 656 | 3.20         | 14.3E-9     | 42.8E-9      | 846.4E-3   | 122.9E-3      | 18.40        | -8.5E-9      | 3.18                  | 14.3E-9     | 45.2E-9      | 845.2E-3   | 122.3E-3      | 18.38        | -5.9E-9      |
| 657 | 3.20         | 14.9E-9     | 32.8E-9      | 847.2E-3   | 132.6E-3      | 18.70        | -9.2E-9      | 3.15                  | 15.4E-9     | 34.8E-9      | 847.2E-3   | 131.7E-3      | 18.65        | -6.4E-9      |
| 658 | 3.10         | 14.3E-9     | 39.2E-9      | 846.4E-3   | 128.1E-3      | 18.70        | -8.0E-9      | 3.14                  | 16.4E-9     | 41.6E-9      | 846.4E-3   | 127.4E-3      | 18.71        | -8.5E-9      |
| 659 | 3.20         | 13.8E-9     | 46.8E-9      | 846.4E-3   | 120.0E-3      | 18.20        | -7.3E-9      | 3.21                  | 9.2E-9      | 47.2E-9      | 846.8E-3   | 118.6E-3      | 18.11        | -5.6E-9      |
| 660 | 3.20         | 15.4E-9     | 60.4E-9      | 846.8E-3   | 122.4E-3      | 18.30        | -7.2E-9      | 3.17                  | 16.4E-9     | 55.6E-9      | 845.2E-3   | 121.4E-3      | 18.30        | -6.6E-9      |
| 661 | 3.10         | 12.8E-9     | 35.6E-9      | 845.6E-3   | 132.1E-3      | 18.70        | -9.0E-9      | 3.15                  | 16.4E-9     | 46.8E-9      | 852.8E-3   | 124.8E-3      | 18.44        | -5.3E-9      |
| 662 | 3.20         | 14.9E-9     | 53.6E-9      | 846.4E-3   | 122.4E-3      | 18.40        | -6.8E-9      | 3.17                  | 16.4E-9     | 56.8E-9      | 846.8E-3   | 120.9E-3      | 18.32        | -5.9E-9      |
| 663 | 3.10         | 15.4E-9     | 46.0E-9      | 845.2E-3   | 126.7E-3      | 18.50        | -6.8E-9      | 3.14                  | 13.8E-9     | 49.2E-9      | 845.2E-3   | 123.0E-3      | 18.53        | -4.5E-9      |
| 664 | 3.10         | 16.4E-9     | 52.4E-9      | 844.4E-3   | 126.0E-3      | 18.50        | -6.6E-9      | 3.14                  | 14.9E-9     | 41.6E-9      | 845.2E-3   | 125.7E-3      | 18.54        | -7.1E-9      |
| 665 | 3.10         | 13.3E-9     | 43.6E-9      | 844.0E-3   | 129.2E-3      | 18.50        | -7.2E-9      | 3.16                  | 14.9E-9     | 36.8E-9      | 847.6E-3   | 129.1E-3      | 18.37        | -5.7E-9      |

**Temperature Cycle**  
**Mil-Std 750 M 1051, 100 Cycles,  $\Delta T_j$  -55°C to 175°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |              |              |              | 100 Cycles End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|-----------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA          | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 666 | 3.20         | 16.4E-9     | 40.0E-9      | 844.0E-3   | 132.2E-3     | 18.40        | -6.6E-9      | 3.15                  | 16.4E-9     | 45.2E-9      | 846.4E-3   | 123.4E-3     | 18.47        | -5.6E-9      |
| 667 | 3.10         | 16.4E-9     | 48.0E-9      | 844.8E-3   | 126.4E-3     | 18.50        | -5.6E-9      | 3.15                  | 18.4E-9     | 37.2E-9      | 846.4E-3   | 129.6E-3     | 18.50        | -5.9E-9      |
| 668 | 3.10         | 14.3E-9     | 40.4E-9      | 844.4E-3   | 132.6E-3     | 18.50        | -6.8E-9      | 3.14                  | 17.4E-9     | 35.6E-9      | 846.4E-3   | 130.2E-3     | 18.66        | -7.9E-9      |
| 669 | 3.10         | 14.9E-9     | 43.2E-9      | 844.0E-3   | 133.0E-3     | 18.40        | -5.6E-9      | 3.16                  | 17.4E-9     | 40.0E-9      | 846.4E-3   | 129.6E-3     | 18.41        | -5.8E-9      |
| 670 | 3.10         | 14.6E-9     | 51.6E-9      | 843.2E-3   | 126.3E-3     | 18.50        | -6.6E-9      | 3.16                  | 12.8E-9     | 46.4E-9      | 845.6E-3   | 122.6E-3     | 18.49        | -6.2E-9      |
| 671 | 3.10         | 13.6E-9     | 40.4E-9      | 845.6E-3   | 131.6E-3     | 18.50        | -6.8E-9      | 3.15                  | 18.4E-9     | 39.2E-9      | 847.6E-3   | 128.3E-3     | 18.48        | -6.2E-9      |
| 672 | 3.10         | 14.3E-9     | 38.0E-9      | 844.4E-3   | 132.5E-3     | 18.50        | -6.4E-9      | 3.15                  | 16.4E-9     | 35.2E-9      | 846.8E-3   | 129.0E-3     | 18.41        | -1.7E-9      |
| 673 | 3.10         | 12.3E-9     | 57.2E-9      | 844.4E-3   | 126.6E-3     | 18.50        | -6.7E-9      | 3.15                  | 13.3E-9     | 41.2E-9      | 847.2E-3   | 123.3E-3     | 18.50        | -5.2E-9      |
| 674 | 3.20         | 14.9E-9     | 46.8E-9      | 844.4E-3   | 131.7E-3     | 18.30        | -7.1E-9      | 3.20                  | 17.4E-9     | 41.6E-9      | 847.2E-3   | 128.4E-3     | 18.36        | -6.4E-9      |
| 675 | 3.20         | 14.3E-9     | 50.0E-9      | 843.6E-3   | 126.1E-3     | 18.40        | -6.2E-9      | 3.16                  | 18.4E-9     | 46.8E-9      | 847.6E-3   | 122.9E-3     | 18.47        | -6.1E-9      |
| 676 | 3.10         | 14.3E-9     | 51.2E-9      | 844.4E-3   | 126.6E-3     | 18.40        | -7.1E-9      | 3.15                  | 16.4E-9     | 44.0E-9      | 847.6E-3   | 123.6E-3     | 18.44        | 720.0E-12    |
| 677 | 3.10         | 14.3E-9     | 45.2E-9      | 844.4E-3   | 129.8E-3     | 18.50        | -6.9E-9      | 3.15                  | 14.9E-9     | 42.0E-9      | 848.0E-3   | 126.7E-3     | 18.44        | -2.7E-9      |
| 678 | 3.10         | 14.9E-9     | 69.6E-9      | 843.2E-3   | 124.0E-3     | 18.30        | -7.1E-9      | 3.16                  | 16.4E-9     | 60.8E-9      | 848.4E-3   | 120.2E-3     | 18.23        | -3.3E-9      |
| 679 | 3.20         | 16.9E-9     | 42.8E-9      | 845.2E-3   | 130.7E-3     | 18.40        | -7.0E-9      | 3.17                  | 16.4E-9     | 41.6E-9      | 853.6E-3   | 128.3E-3     | 18.31        | -4.6E-9      |
| 680 | 3.20         | 16.9E-9     | 64.8E-9      | 844.8E-3   | 122.3E-3     | 18.30        | -7.0E-9      | 3.16                  | 16.4E-9     | 61.6E-9      | 850.0E-3   | 120.2E-3     | 18.28        | -1.8E-9      |
| 681 | 3.20         | 17.4E-9     | 43.2E-9      | 845.2E-3   | 131.2E-3     | 18.30        | -6.3E-9      | 3.19                  | 14.3E-9     | 41.2E-9      | 846.8E-3   | 128.9E-3     | 18.26        | -3.6E-9      |
| 682 | 3.20         | 15.4E-9     | 36.8E-9      | 845.2E-3   | 134.1E-3     | 18.60        | -7.9E-9      | 3.16                  | 15.4E-9     | 34.8E-9      | 853.6E-3   | 132.4E-3     | 18.50        | -2.8E-9      |
| 683 | 3.20         | 12.8E-9     | 73.2E-9      | 844.8E-3   | 123.0E-3     | 18.20        | -6.4E-9      | 3.19                  | 13.6E-9     | 65.6E-9      | 847.6E-3   | 119.7E-3     | 18.17        | -4.3E-9      |
| 684 | 3.10         | 15.4E-9     | 45.2E-9      | 843.6E-3   | 125.5E-3     | 18.60        | -8.2E-9      | 3.14                  | 14.9E-9     | 44.0E-9      | 844.8E-3   | 123.3E-3     | 18.53        | -7.2E-9      |
| 685 | 3.10         | 14.9E-9     | 35.6E-9      | 845.6E-3   | 132.8E-3     | 18.60        | -7.0E-9      | 3.15                  | 14.9E-9     | 34.4E-9      | 847.6E-3   | 131.1E-3     | 18.55        | -5.4E-9      |
| 686 | 3.20         | 13.3E-9     | 45.6E-9      | 845.2E-3   | 124.7E-3     | 18.50        | -7.2E-9      | 3.17                  | 14.3E-9     | 45.2E-9      | 846.4E-3   | 122.6E-3     | 18.38        | -1.2E-9      |
| 687 | 3.20         | 14.9E-9     | 29.2E-9      | 846.8E-3   | 133.9E-3     | 18.60        | -7.8E-9      | 3.21                  | 16.6E-9     | 30.4E-9      | 849.2E-3   | 132.6E-3     | 18.48        | -7.6E-9      |
| 688 | 3.20         | 10.8E-9     | 46.4E-9      | 845.6E-3   | 121.0E-3     | 18.20        | -5.6E-9      | 3.24                  | 8.2E-9      | 46.4E-9      | 847.2E-3   | 119.6E-3     | 18.23        | -2.0E-9      |
| 689 | 3.20         | 13.3E-9     | 50.8E-9      | 846.0E-3   | 123.5E-3     | 18.30        | -5.7E-9      | 3.18                  | 13.8E-9     | 54.8E-9      | 845.2E-3   | 123.5E-3     | 18.24        | -6.2E-9      |
| 690 | 3.10         | 16.4E-9     | 26.8E-9      | 845.6E-3   | 125.7E-3     | 18.50        | -6.9E-9      | 3.13                  | 14.6E-9     | 28.0E-9      | 845.6E-3   | 124.6E-3     | 18.47        | -6.5E-9      |

**Temperature Cycle**  
**Mil-Std 750 M 1051, 100 Cycles,  $\Delta T_j$  -55°C to 175°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |              |              |              | 100 Cycles End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|-----------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA          | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 691 | 3.20         | 17.4E-9     | 27.6E-9      | 846.8E-3   | 128.1E-3     | 18.50        | 18.8E-9      | 3.16                  | 18.4E-9     | 28.4E-9      | 850.8E-3   | 127.0E-3     | 18.40        | -7.0E-9      |
| 692 | 3.20         | 16.4E-9     | 28.4E-9      | 846.8E-3   | 121.9E-3     | 18.60        | -6.4E-9      | 3.16                  | 16.4E-9     | 28.4E-9      | 847.6E-3   | 121.3E-3     | 18.42        | -6.6E-9      |
| 693 | 3.20         | 14.3E-9     | 26.4E-9      | 846.0E-3   | 123.7E-3     | 18.50        | -6.2E-9      | 3.15                  | 13.3E-9     | 27.6E-9      | 850.0E-3   | 123.2E-3     | 18.44        | -6.0E-9      |
| 694 | 3.20         | 11.3E-9     | 29.6E-9      | 846.4E-3   | 120.8E-3     | 18.50        | -4.8E-9      | 3.20                  | 16.4E-9     | 30.0E-9      | 847.6E-3   | 120.1E-3     | 18.38        | -6.0E-9      |
| 695 | 3.20         | 13.3E-9     | 28.0E-9      | 846.4E-3   | 119.2E-3     | 18.30        | 5.2E-9       | 3.23                  | 11.8E-9     | 28.8E-9      | 847.6E-3   | 119.0E-3     | 18.28        | -6.3E-9      |
| 696 | 3.20         | 13.8E-9     | 31.6E-9      | 846.8E-3   | 119.5E-3     | 18.40        | -6.9E-9      | 3.24                  | 13.3E-9     | 32.0E-9      | 846.0E-3   | 119.3E-3     | 18.28        | -5.7E-9      |
| 697 | 3.20         | 16.4E-9     | 26.0E-9      | 845.2E-3   | 123.7E-3     | 18.50        | 17.8E-9      | 3.16                  | 16.9E-9     | 26.4E-9      | 844.0E-3   | 122.4E-3     | 18.41        | 3.6E-9       |
| 698 | 3.20         | 18.4E-9     | 25.6E-9      | 846.4E-3   | 122.3E-3     | 18.50        | 7.2E-9       | 3.16                  | 15.4E-9     | 26.8E-9      | 847.2E-3   | 122.0E-3     | 18.42        | -3.6E-9      |
| 699 | 3.20         | 15.4E-9     | 24.0E-9      | 844.8E-3   | 121.6E-3     | 18.40        | -7.4E-9      | 3.17                  | 15.4E-9     | 23.6E-9      | 845.2E-3   | 120.6E-3     | 18.37        | 520.0E-12    |
| 700 | 3.20         | 14.9E-9     | 26.4E-9      | 845.6E-3   | 120.9E-3     | 18.40        | -3.0E-9      | 3.20                  | 16.9E-9     | 25.2E-9      | 846.8E-3   | 119.6E-3     | 18.29        | -5.9E-9      |
| 701 | 3.20         | 12.3E-9     | 24.4E-9      | 846.4E-3   | 119.6E-3     | 18.40        | -5.2E-9      | 3.20                  | 14.3E-9     | 24.4E-9      | 847.6E-3   | 119.5E-3     | 18.36        | 3.2E-9       |
| 702 | 3.17         | 12.8E-9     | 22.8E-9      | 844.0E-3   | 123.9E-3     | 18.50        | -6.4E-9      | 3.17                  | 13.3E-9     | 22.8E-9      | 848.4E-3   | 122.2E-3     | 18.46        | -4.2E-9      |
| 703 | 3.16         | 14.3E-9     | 20.8E-9      | 845.2E-3   | 122.4E-3     | 18.50        | -6.0E-9      | 3.16                  | 12.3E-9     | 21.6E-9      | 846.8E-3   | 121.2E-3     | 18.38        | -4.0E-9      |
| 704 | 3.23         | 11.3E-9     | 43.6E-9      | 846.0E-3   | 119.1E-3     | 18.30        | -8.5E-9      | 3.22                  | 10.8E-9     | 45.6E-9      | 848.8E-3   | 118.6E-3     | 18.19        | -3.4E-9      |
| 705 | 3.22         | 12.3E-9     | 29.2E-9      | 847.2E-3   | 120.5E-3     | 18.40        | -8.2E-9      | 3.22                  | 14.3E-9     | 29.2E-9      | 848.0E-3   | 119.4E-3     | 18.25        | -5.4E-9      |
| 706 | 3.21         | 10.8E-9     | 29.2E-9      | 846.4E-3   | 120.5E-3     | 18.30        | -4.9E-9      | 3.22                  | 13.3E-9     | 29.2E-9      | 847.6E-3   | 119.0E-3     | 18.20        | -4.1E-9      |
| 707 | 3.25         | 10.2E-9     | 23.6E-9      | 845.6E-3   | 119.0E-3     | 18.20        | -3.9E-9      | 3.25                  | 8.7E-9      | 23.2E-9      | 848.4E-3   | 117.7E-3     | 18.23        | -5.7E-9      |
| 708 | 3.20         | 12.5E-9     | 69.2E-9      | 845.6E-3   | 121.2E-3     | 18.40        | -7.9E-9      | 3.18                  | 14.3E-9     | 25.2E-9      | 845.6E-3   | 121.5E-3     | 18.32        | -6.2E-9      |
| 709 | 3.18         | 14.3E-9     | 24.4E-9      | 846.4E-3   | 122.8E-3     | 18.40        | -3.9E-9      | 3.17                  | 14.9E-9     | 26.4E-9      | 847.6E-3   | 120.9E-3     | 18.32        | -160.0E-12   |
| 710 | 3.17         | 10.8E-9     | 26.0E-9      | 846.8E-3   | 122.4E-3     | 18.30        | -6.4E-9      | 3.16                  | 16.4E-9     | 27.2E-9      | 847.6E-3   | 124.5E-3     | 18.31        | -5.7E-9      |
| 711 | 3.15         | 14.9E-9     | 25.6E-9      | 845.2E-3   | 125.8E-3     | 18.30        | -6.5E-9      | 3.18                  | 14.3E-9     | 25.6E-9      | 851.2E-3   | 122.7E-3     | 18.29        | -6.1E-9      |
| 712 | 3.18         | 16.4E-9     | 25.2E-9      | 846.0E-3   | 123.8E-3     | 18.30        | -6.3E-9      | 3.17                  | 16.4E-9     | 26.8E-9      | 845.2E-3   | 125.9E-3     | 18.32        | -5.8E-9      |
| 713 | 3.17         | 14.3E-9     | 26.8E-9      | 844.8E-3   | 127.6E-3     | 18.40        | -5.5E-9      | 3.16                  | 13.8E-9     | 25.2E-9      | 848.8E-3   | 124.8E-3     | 18.28        | 6.3E-9       |
| 714 | 3.16         | 14.3E-9     | 26.0E-9      | 845.2E-3   | 126.2E-3     | 18.40        | -3.1E-9      | 3.20                  | 13.8E-9     | 28.4E-9      | 844.0E-3   | 127.0E-3     | 18.24        | -5.2E-9      |
| 715 | 3.20         | 13.3E-9     | 26.8E-9      | 844.0E-3   | 127.7E-3     | 18.30        | -4.6E-9      | 3.17                  | 12.8E-9     | 28.8E-9      | 845.6E-3   | 126.3E-3     | 18.24        | -5.4E-9      |
| 716 | 3.17         | 13.3E-9     | 28.4E-9      | 844.8E-3   | 127.9E-3     | 18.30        | -4.4E-9      | 3.21                  | 10.8E-9     | 28.4E-9      | 848.8E-3   | 119.6E-3     | 18.26        | -5.6E-9      |
| 717 | 3.21         | 10.2E-9     | 29.6E-9      | 846.0E-3   | 120.8E-3     | 18.30        | -2.4E-9      | 3.19                  | 11.8E-9     | 28.4E-9      | 846.4E-3   | 120.3E-3     | 18.26        | -6.0E-9      |

# ***High Temperature Storage***

**High Temperature Storage**  
**Mil-Std 750 M 1032, 340hrs, 150°C**  
**Lot 6701**

| SN  | Initials     |             |              |            |              |              |              | 340Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 81  | 3.24         | 14.3E-9     | 37.2E-9      | 842.8E-3   | 141.8E-3     | 17.64        | -720.0E-12   | 3.25             | 11.3E-9     | 40.4E-9      | 843.6E-3   | 140.0E-3     | 17.77        | -1.6E-9      |
| 82  | 3.27         | 9.2E-9      | 47.6E-9      | 844.4E-3   | 141.7E-3     | 17.63        | 40.0E-12     | 3.27             | 7.7E-9      | 61.6E-9      | 844.4E-3   | 141.0E-3     | 17.69        | -1.1E-9      |
| 83  | 3.25         | 10.8E-9     | 39.2E-9      | 843.6E-3   | 142.0E-3     | 17.74        | 160.0E-12    | 3.25             | 12.3E-9     | 41.2E-9      | 846.8E-3   | 141.0E-3     | 17.77        | -1.6E-9      |
| 84  | 3.28         | 9.2E-9      | 36.8E-9      | 843.6E-3   | 142.4E-3     | 17.65        | -480.0E-12   | 3.29             | 10.2E-9     | 39.6E-9      | 844.0E-3   | 141.1E-3     | 17.75        | -1.4E-9      |
| 85  | 3.23         | 10.5E-9     | 30.8E-9      | 844.0E-3   | 131.9E-3     | 18.06        | -120.0E-12   | 3.23             | 11.5E-9     | 35.6E-9      | 844.0E-3   | 130.9E-3     | 18.10        | -1.4E-9      |
| 86  | 3.24         | 10.8E-9     | 206.0E-9     | 844.8E-3   | 141.4E-3     | 17.78        | -800.0E-12   | 3.23             | 12.3E-9     | 263.2E-9     | 846.0E-3   | 141.0E-3     | 17.86        | -1.8E-9      |
| 87  | 3.21         | 12.8E-9     | 26.0E-9      | 843.2E-3   | 133.9E-3     | 18.11        | -280.0E-12   | 3.22             | 13.8E-9     | 29.2E-9      | 849.6E-3   | 132.9E-3     | 18.10        | -1.6E-9      |
| 88  | 3.24         | 12.3E-9     | 28.0E-9      | 843.2E-3   | 133.4E-3     | 18.04        | 1.2E-9       | 3.24             | 12.5E-9     | 30.4E-9      | 851.2E-3   | 132.2E-3     | 18.02        | -1.3E-9      |
| 89  | 3.27         | 10.8E-9     | 39.6E-9      | 844.8E-3   | 142.7E-3     | 17.78        | -240.0E-12   | 3.27             | 12.3E-9     | 43.6E-9      | 851.2E-3   | 142.0E-3     | 17.75        | -1.6E-9      |
| 90  | 3.23         | 9.7E-9      | 29.2E-9      | 842.4E-3   | 136.2E-3     | 18.04        | -240.0E-12   | 3.24             | 12.8E-9     | 31.6E-9      | 846.4E-3   | 134.7E-3     | 18.11        | -1.4E-9      |
| 91  | 3.25         | 12.3E-9     | 26.0E-9      | 844.0E-3   | 133.7E-3     | 18.16        | 360.0E-12    | 3.24             | 13.8E-9     | 30.0E-9      | 848.0E-3   | 133.7E-3     | 18.07        | -1.4E-9      |
| 92  | 3.19         | 12.5E-9     | 32.4E-9      | 844.4E-3   | 139.2E-3     | 17.88        | -400.0E-12   | 3.18             | 14.3E-9     | 37.6E-9      | 848.0E-3   | 140.2E-3     | 17.86        | -2.2E-9      |
| 93  | 3.24         | 11.5E-9     | 27.2E-9      | 844.0E-3   | 135.3E-3     | 18.06        | 2.1E-9       | 3.23             | 12.3E-9     | 32.0E-9      | 846.0E-3   | 135.3E-3     | 18.12        | -1.4E-9      |
| 94  | 3.21         | 12.8E-9     | 36.4E-9      | 844.8E-3   | 140.4E-3     | 17.82        | 2.1E-9       | 3.20             | 13.3E-9     | 40.8E-9      | 845.6E-3   | 140.5E-3     | 17.86        | -1.9E-9      |
| 95  | 3.19         | 15.4E-9     | 33.2E-9      | 844.4E-3   | 138.9E-3     | 17.93        | -360.0E-12   | 3.19             | 13.3E-9     | 36.4E-9      | 844.4E-3   | 138.5E-3     | 17.96        | -2.0E-9      |
| 96  | 3.22         | 11.3E-9     | 36.4E-9      | 843.6E-3   | 140.6E-3     | 17.80        | -120.0E-12   | 3.21             | 13.3E-9     | 40.0E-9      | 847.2E-3   | 140.5E-3     | 17.75        | -1.8E-9      |
| 97  | 3.20         | 11.3E-9     | 39.2E-9      | 844.0E-3   | 140.7E-3     | 17.87        | -280.0E-12   | 3.20             | 13.3E-9     | 40.4E-9      | 848.0E-3   | 140.3E-3     | 17.83        | 6.8E-9       |
| 98  | 3.19         | 14.3E-9     | 32.0E-9      | 843.2E-3   | 138.3E-3     | 17.99        | 000.0E+0     | 3.18             | 14.3E-9     | 36.8E-9      | 844.8E-3   | 138.3E-3     | 17.92        | -1.4E-9      |
| 99  | 3.14         | 17.4E-9     | 28.4E-9      | 842.4E-3   | 141.5E-3     | 18.23        | -80.0E-12    | 3.15             | 20.5E-9     | 28.0E-9      | 850.8E-3   | 139.4E-3     | 18.17        | -2.4E-9      |
| 100 | 3.14         | 14.6E-9     | 27.2E-9      | 842.0E-3   | 141.3E-3     | 18.18        | 000.0E+0     | 3.15             | 16.4E-9     | 27.6E-9      | 843.6E-3   | 138.3E-3     | 18.22        | -2.0E-9      |
| 101 | 3.15         | 16.4E-9     | 26.0E-9      | 843.2E-3   | 141.3E-3     | 18.13        | 40.0E-12     | 3.16             | 14.3E-9     | 27.6E-9      | 850.0E-3   | 138.4E-3     | 18.18        | -1.9E-9      |
| 102 | 3.15         | 14.9E-9     | 27.6E-9      | 842.0E-3   | 141.5E-3     | 18.26        | 2.3E-9       | 3.15             | 13.3E-9     | 30.8E-9      | 854.0E-3   | 140.5E-3     | 18.13        | -2.0E-9      |
| 103 | 3.16         | 18.4E-9     | 30.4E-9      | 840.8E-3   | 144.6E-3     | 18.19        | -80.0E-12    | 3.18             | 16.4E-9     | 29.2E-9      | 844.0E-3   | 140.0E-3     | 18.30        | -2.1E-9      |
| 104 | 3.16         | 16.4E-9     | 25.6E-9      | 843.6E-3   | 141.7E-3     | 18.22        | 40.0E-12     | 3.17             | 16.4E-9     | 27.6E-9      | 847.2E-3   | 139.1E-3     | 18.22        | -2.1E-9      |
| 105 | 3.20         | 16.4E-9     | 27.6E-9      | 844.0E-3   | 141.3E-3     | 18.22        | -2.2E-9      | 3.20             | 16.4E-9     | 30.0E-9      | 848.4E-3   | 140.3E-3     | 18.18        | -1.7E-9      |

**High Temperature Storage**  
**Mil-Std 750 M 1032, 340hrs, 150°C**  
**Lot 6701**

| SN  | Initials     |             |              |            |              |              |              | 340Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 106 | 3.18         | 16.9E-9     | 27.2E-9      | 843.2E-3   | 141.5E-3     | 18.24        | -2.8E-9      | 3.19             | 17.9E-9     | 29.2E-9      | 850.8E-3   | 139.7E-3     | 18.19        | -1.8E-9      |
| 107 | 3.23         | 16.4E-9     | 32.4E-9      | 844.0E-3   | 139.8E-3     | 18.31        | 720.0E-12    | 3.23             | 15.4E-9     | 34.0E-9      | 849.2E-3   | 138.8E-3     | 18.20        | -1.7E-9      |
| 108 | 3.20         | 15.4E-9     | 30.4E-9      | 844.0E-3   | 141.5E-3     | 18.23        | 3.2E-9       | 3.20             | 16.4E-9     | 32.4E-9      | 848.4E-3   | 140.0E-3     | 18.23        | -1.8E-9      |
| 109 | 3.19         | 17.7E-9     | 35.6E-9      | 843.6E-3   | 131.8E-3     | 17.87        | -400.0E-12   | 3.20             | 16.4E-9     | 37.6E-9      | 846.8E-3   | 130.5E-3     | 17.89        | -1.9E-9      |
| 110 | 3.21         | 14.9E-9     | 32.4E-9      | 844.0E-3   | 141.3E-3     | 18.29        | -480.0E-12   | 3.22             | 16.6E-9     | 34.8E-9      | 845.6E-3   | 138.3E-3     | 18.26        | -1.4E-9      |
| 111 | 3.17         | 14.3E-9     | 34.8E-9      | 843.6E-3   | 131.3E-3     | 18.01        | -1.9E-9      | 3.18             | 14.9E-9     | 38.0E-9      | 848.4E-3   | 130.0E-3     | 17.98        | -2.1E-9      |
| 112 | 3.18         | 14.9E-9     | 34.0E-9      | 844.8E-3   | 131.0E-3     | 17.95        | 1.8E-9       | 3.18             | 14.6E-9     | 35.6E-9      | 849.6E-3   | 129.8E-3     | 17.94        | -2.3E-9      |
| 113 | 3.16         | 16.4E-9     | 34.0E-9      | 844.0E-3   | 131.2E-3     | 17.98        | -40.0E-12    | 3.16             | 13.3E-9     | 37.6E-9      | 846.0E-3   | 130.3E-3     | 18.05        | -2.2E-9      |
| 114 | 3.16         | 13.3E-9     | 51.6E-9      | 843.6E-3   | 130.7E-3     | 17.95        | -320.0E-12   | 3.16             | 10.8E-9     | 38.0E-9      | 845.6E-3   | 129.7E-3     | 18.01        | -2.0E-9      |
| 115 | 3.16         | 14.6E-9     | 35.6E-9      | 843.2E-3   | 131.8E-3     | 18.04        | -1.2E-9      | 3.17             | 10.2E-9     | 37.6E-9      | 849.2E-3   | 130.3E-3     | 18.02        | -3.0E-9      |
| 116 | 3.16         | 14.3E-9     | 35.6E-9      | 842.8E-3   | 132.0E-3     | 17.98        | -1.0E-9      | 3.17             | 16.9E-9     | 36.4E-9      | 846.8E-3   | 130.1E-3     | 18.10        | -2.4E-9      |
| 117 | 3.18         | 16.4E-9     | 43.2E-9      | 843.6E-3   | 133.6E-3     | 18.08        | -880.0E-12   | 3.18             | 19.5E-9     | 44.4E-9      | 848.4E-3   | 132.3E-3     | 18.10        | -2.2E-9      |
| 118 | 3.16         | 14.9E-9     | 49.2E-9      | 842.8E-3   | 131.8E-3     | 18.06        | -360.0E-12   | 3.16             | 16.9E-9     | 51.6E-9      | 848.4E-3   | 130.6E-3     | 18.05        | -2.2E-9      |
| 119 | 3.19         | 15.4E-9     | 27.6E-9      | 844.0E-3   | 136.4E-3     | 18.00        | -80.0E-12    | 3.18             | 16.4E-9     | 32.4E-9      | 842.8E-3   | 136.3E-3     | 18.10        | -2.5E-9      |
| 120 | 3.19         | 18.4E-9     | 29.2E-9      | 844.8E-3   | 136.9E-3     | 17.99        | -960.0E-12   | 3.19             | 17.7E-9     | 31.2E-9      | 845.2E-3   | 135.8E-3     | 18.05        | -2.4E-9      |
| 121 | 3.18         | 14.3E-9     | 30.0E-9      | 843.2E-3   | 137.5E-3     | 18.02        | 000.0E+0     | 3.18             | 16.4E-9     | 33.2E-9      | 844.4E-3   | 136.7E-3     | 18.08        | -2.2E-9      |
| 122 | 3.19         | 18.9E-9     | 28.4E-9      | 842.4E-3   | 136.8E-3     | 18.04        | -760.0E-12   | 3.19             | 16.9E-9     | 31.6E-9      | 844.4E-3   | 135.8E-3     | 18.08        | -2.4E-9      |
| 123 | 3.19         | 12.8E-9     | 28.8E-9      | 843.2E-3   | 138.2E-3     | 18.02        | 4.0E-9       | 3.19             | 15.4E-9     | 31.2E-9      | 843.6E-3   | 137.4E-3     | 18.07        | -2.0E-9      |
| 124 | 3.19         | 14.6E-9     | 28.4E-9      | 844.0E-3   | 137.4E-3     | 18.02        | -440.0E-12   | 3.18             | 12.3E-9     | 36.4E-9      | 846.8E-3   | 137.3E-3     | 17.99        | -2.3E-9      |
| 125 | 3.20         | 12.8E-9     | 29.6E-9      | 843.2E-3   | 139.6E-3     | 17.96        | -920.0E-12   | 3.20             | 13.8E-9     | 31.2E-9      | 850.0E-3   | 139.0E-3     | 17.88        | -2.0E-9      |
| 126 | 3.19         | 15.4E-9     | 30.8E-9      | 843.6E-3   | 139.1E-3     | 17.99        | -760.0E-12   | 3.19             | 15.4E-9     | 36.8E-9      | 846.0E-3   | 138.6E-3     | 18.00        | -2.1E-9      |
| 127 | 3.23         | 10.5E-9     | 30.8E-9      | 843.6E-3   | 141.3E-3     | 17.84        | -480.0E-12   | 3.23             | 12.3E-9     | 34.0E-9      | 846.0E-3   | 140.3E-3     | 17.90        | -2.0E-9      |
| 128 | 3.22         | 14.3E-9     | 30.0E-9      | 844.0E-3   | 139.9E-3     | 17.92        | -200.0E-12   | 3.22             | 12.3E-9     | 32.8E-9      | 849.6E-3   | 139.9E-3     | 17.86        | -2.3E-9      |
| 129 | 3.28         | 12.3E-9     | 34.8E-9      | 845.2E-3   | 129.2E-3     | 18.02        | 1.3E-9       | 3.28             | 12.8E-9     | 37.2E-9      | 847.2E-3   | 128.7E-3     | 18.05        | -1.9E-9      |
| 130 | 3.25         | 10.5E-9     | 30.8E-9      | 843.6E-3   | 140.8E-3     | 17.78        | 3.6E-9       | 3.24             | 10.2E-9     | 35.6E-9      | 844.8E-3   | 141.0E-3     | 17.82        | -1.8E-9      |

**High Temperature Storage**  
**Mil-Std 750 M 1032, 340hrs, 150°C**  
**Lot 6701**

| SN  | Initials     |             |              |            |              |              |              | 340Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 131 | 3.31         | 12.8E-9     | 30.8E-9      | 844.8E-3   | 128.7E-3     | 17.89        | -360.0E-12   | 3.31             | 12.8E-9     | 34.0E-9      | 849.2E-3   | 128.5E-3     | 17.90        | -1.7E-9      |
| 132 | 3.29         | 11.3E-9     | 34.0E-9      | 844.8E-3   | 129.1E-3     | 18.02        | -520.0E-12   | 3.29             | 12.3E-9     | 37.2E-9      | 846.8E-3   | 129.0E-3     | 18.02        | -1.4E-9      |
| 133 | 3.27         | 16.9E-9     | 32.8E-9      | 843.6E-3   | 129.8E-3     | 17.95        | -160.0E-12   | 3.28             | 9.7E-9      | 36.0E-9      | 851.2E-3   | 128.9E-3     | 17.93        | -1.6E-9      |
| 134 | 3.30         | 12.3E-9     | 29.6E-9      | 843.6E-3   | 129.9E-3     | 17.87        | 000.0E+0     | 3.30             | 12.3E-9     | 36.0E-9      | 847.2E-3   | 129.4E-3     | 17.92        | -1.5E-9      |
| 135 | 3.23         | 11.5E-9     | 31.2E-9      | 843.6E-3   | 131.1E-3     | 17.96        | -1.4E-9      | 3.24             | 17.4E-9     | 32.8E-9      | 852.0E-3   | 129.5E-3     | 17.96        | -1.8E-9      |
| 136 | 3.25         | 14.3E-9     | 31.2E-9      | 843.6E-3   | 130.4E-3     | 17.89        | -2.2E-9      | 3.25             | 14.6E-9     | 33.6E-9      | 848.4E-3   | 128.9E-3     | 17.95        | -2.2E-9      |
| 137 | 3.21         | 16.4E-9     | 30.4E-9      | 842.4E-3   | 131.1E-3     | 18.00        | -480.0E-12   | 3.19             | 18.9E-9     | 35.2E-9      | 846.4E-3   | 131.5E-3     | 18.07        | -2.2E-9      |
| 138 | 3.22         | 14.3E-9     | 32.0E-9      | 843.2E-3   | 131.7E-3     | 18.02        | -1.0E-9      | 3.22             | 16.6E-9     | 34.0E-9      | 850.4E-3   | 130.2E-3     | 18.00        | -880.0E-12   |
| 139 | 3.20         | 14.9E-9     | 30.4E-9      | 843.2E-3   | 131.7E-3     | 18.08        | -920.0E-12   | 3.22             | 16.4E-9     | 32.4E-9      | 849.6E-3   | 129.9E-3     | 18.01        | -1.8E-9      |
| 140 | 3.21         | 14.9E-9     | 30.0E-9      | 843.6E-3   | 131.3E-3     | 18.04        | -640.0E-12   | 3.21             | 16.4E-9     | 34.4E-9      | 849.6E-3   | 130.5E-3     | 18.01        | -2.1E-9      |
| 141 | 3.19         | 16.4E-9     | 29.2E-9      | 842.4E-3   | 132.4E-3     | 18.05        | -1.7E-9      | 3.19             | 16.9E-9     | 31.6E-9      | 848.0E-3   | 131.6E-3     | 18.05        | -2.6E-9      |
| 142 | 3.18         | 16.4E-9     | 28.4E-9      | 842.8E-3   | 132.0E-3     | 18.04        | -1.6E-9      | 3.19             | 16.4E-9     | 32.8E-9      | 848.4E-3   | 131.4E-3     | 18.00        | -2.2E-9      |
| 143 | 3.17         | 16.4E-9     | 28.4E-9      | 842.4E-3   | 134.3E-3     | 18.10        | -800.0E-12   | 3.18             | 14.6E-9     | 32.4E-9      | 848.8E-3   | 132.9E-3     | 18.07        | -2.5E-9      |
| 144 | 3.18         | 13.3E-9     | 29.6E-9      | 842.8E-3   | 132.9E-3     | 18.11        | -200.0E-12   | 3.18             | 16.4E-9     | 34.0E-9      | 845.2E-3   | 132.8E-3     | 18.07        | -2.0E-9      |
| 145 | 3.18         | 18.4E-9     | 27.6E-9      | 841.6E-3   | 134.2E-3     | 18.17        | 440.0E-12    | 3.18             | 16.9E-9     | 34.0E-9      | 844.8E-3   | 133.5E-3     | 18.18        | -2.1E-9      |
| 146 | 3.18         | 18.4E-9     | 27.6E-9      | 841.6E-3   | 134.9E-3     | 18.10        | -760.0E-12   | 3.18             | 16.4E-9     | 35.2E-9      | 844.4E-3   | 134.3E-3     | 18.10        | -2.5E-9      |
| 147 | 3.18         | 17.4E-9     | 27.6E-9      | 842.4E-3   | 135.8E-3     | 18.13        | 120.0E-12    | 3.18             | 16.4E-9     | 32.4E-9      | 842.0E-3   | 135.0E-3     | 18.16        | -2.4E-9      |
| 148 | 3.22         | 10.8E-9     | 27.6E-9      | 843.6E-3   | 133.3E-3     | 17.96        | 280.0E-12    | 3.22             | 11.5E-9     | 31.6E-9      | 844.4E-3   | 133.2E-3     | 17.95        | -1.7E-9      |
| 149 | 3.22         | 11.5E-9     | 27.6E-9      | 842.8E-3   | 134.0E-3     | 17.98        | -760.0E-12   | 3.23             | 12.3E-9     | 31.2E-9      | 846.0E-3   | 132.4E-3     | 17.98        | -1.9E-9      |
| 150 | 3.23         | 11.3E-9     | 28.8E-9      | 843.6E-3   | 133.6E-3     | 18.01        | -800.0E-12   | 3.23             | 11.8E-9     | 32.8E-9      | 843.6E-3   | 132.3E-3     | 18.02        | -1.6E-9      |
| 151 | 3.23         | 12.3E-9     | 27.6E-9      | 843.6E-3   | 133.0E-3     | 17.99        | -920.0E-12   | 3.22             | 13.3E-9     | 34.0E-9      | 842.8E-3   | 133.4E-3     | 18.00        | -2.0E-9      |
| 152 | 3.23         | 12.8E-9     | 29.6E-9      | 843.2E-3   | 132.7E-3     | 17.99        | 120.0E-12    | 3.22             | 14.3E-9     | 34.4E-9      | 842.4E-3   | 129.9E-3     | 17.95        | -1.6E-9      |
| 153 | 3.22         | 11.3E-9     | 43.2E-9      | 843.6E-3   | 132.2E-3     | 17.99        | -2.3E-9      | 3.22             | 12.3E-9     | 48.0E-9      | 850.8E-3   | 132.5E-3     | 17.90        | -2.1E-9      |
| 154 | 3.22         | 10.5E-9     | 30.0E-9      | 842.8E-3   | 131.9E-3     | 17.94        | -520.0E-12   | 3.22             | 12.8E-9     | 34.8E-9      | 844.0E-3   | 130.9E-3     | 18.04        | -1.9E-9      |
| 155 | 3.23         | 10.2E-9     | 28.4E-9      | 844.4E-3   | 132.0E-3     | 18.00        | -600.0E-12   | 3.23             | 14.3E-9     | 34.0E-9      | 848.0E-3   | 131.5E-3     | 17.98        | -1.7E-9      |
| 156 | 3.22         | 12.3E-9     | 32.4E-9      | 844.0E-3   | 130.6E-3     | 18.01        | -2.1E-9      | 3.22             | 12.3E-9     | 36.4E-9      | 848.0E-3   | 130.2E-3     | 17.93        | 80.0E-12     |
| 157 | 3.22         | 12.3E-9     | 32.8E-9      | 843.6E-3   | 131.6E-3     | 17.95        | -2.1E-9      | 3.22             | 8.2E-9      | 36.8E-9      | 848.4E-3   | 130.9E-3     | 17.94        | -1.6E-9      |



**High Temperature Storage**  
**Mil-Std 750 M 1032, 340hrs, 150°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |              |              |              | 340Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 401 | 3.52         | 15.7E-9     | 29.7E-9      | 849.7E-3   | 136.9E-3     | 18.02        | -1.0E-9      | 3.51             | 14.3E-9     | 28.8E-9      | 849.2E-3   | 136.9E-3     | 17.93        | -1.9E-9      |
| 402 | 3.43         | 18.0E-9     | 27.3E-9      | 851.8E-3   | 139.6E-3     | 18.61        | -2.8E-9      | 3.42             | 17.4E-9     | 26.8E-9      | 850.8E-3   | 139.1E-3     | 18.47        | -3.4E-9      |
| 403 | 3.42         | 14.3E-9     | 27.8E-9      | 846.5E-3   | 139.4E-3     | 18.43        | -946.3E-12   | 3.41             | 13.6E-9     | 26.8E-9      | 845.6E-3   | 138.5E-3     | 18.29        | -2.4E-9      |
| 404 | 3.44         | 19.3E-9     | 25.6E-9      | 848.3E-3   | 140.7E-3     | 17.86        | -10.9E-9     | 3.42             | 17.9E-9     | 24.4E-9      | 847.2E-3   | 139.6E-3     | 17.74        | -11.3E-9     |
| 405 | 3.43         | 19.9E-9     | 25.6E-9      | 854.5E-3   | 140.6E-3     | 17.82        | -1.9E-9      | 3.42             | 18.4E-9     | 25.2E-9      | 853.6E-3   | 140.5E-3     | 17.76        | -2.8E-9      |
| 406 | 3.43         | 21.2E-9     | 26.5E-9      | 846.5E-3   | 140.7E-3     | 17.81        | -2.1E-9      | 3.42             | 20.5E-9     | 25.6E-9      | 846.0E-3   | 140.5E-3     | 17.76        | -3.0E-9      |
| 407 | 3.52         | 15.2E-9     | 25.3E-9      | 850.5E-3   | 139.5E-3     | 17.80        | -938.5E-12   | 3.51             | 14.6E-9     | 24.4E-9      | 849.6E-3   | 138.9E-3     | 17.74        | -2.4E-9      |
| 408 | 3.54         | 14.6E-9     | 29.5E-9      | 854.2E-3   | 138.9E-3     | 17.99        | -1.1E-9      | 3.53             | 13.8E-9     | 28.8E-9      | 853.6E-3   | 138.8E-3     | 17.83        | -1.7E-9      |
| 409 | 3.47         | 19.3E-9     | 27.0E-9      | 855.2E-3   | 140.0E-3     | 17.68        | -995.8E-12   | 3.46             | 18.4E-9     | 25.6E-9      | 854.4E-3   | 138.8E-3     | 17.68        | -2.4E-9      |
| 410 | 3.50         | 15.6E-9     | 29.7E-9      | 846.8E-3   | 140.1E-3     | 17.81        | -184.8E-12   | 3.49             | 14.3E-9     | 28.8E-9      | 846.0E-3   | 139.9E-3     | 17.80        | -1.8E-9      |
| 411 | 3.44         | 17.7E-9     | 27.4E-9      | 845.7E-3   | 139.5E-3     | 17.85        | -684.4E-12   | 3.42             | 16.4E-9     | 26.0E-9      | 845.2E-3   | 138.5E-3     | 17.71        | -2.1E-9      |
| 412 | 3.45         | 17.9E-9     | 26.7E-9      | 846.7E-3   | 140.0E-3     | 17.74        | -945.3E-12   | 3.45             | 17.4E-9     | 25.2E-9      | 846.0E-3   | 138.6E-3     | 17.74        | -2.4E-9      |
| 413 | 3.45         | 19.3E-9     | 25.8E-9      | 852.3E-3   | 136.7E-3     | 17.82        | -2.5E-9      | 3.42             | 17.9E-9     | 24.8E-9      | 852.0E-3   | 136.6E-3     | 17.65        | -3.0E-9      |
| 414 | 3.43         | 19.6E-9     | 27.2E-9      | 846.4E-3   | 138.1E-3     | 17.81        | -1.4E-9      | 3.42             | 18.9E-9     | 26.0E-9      | 845.6E-3   | 137.9E-3     | 17.74        | -2.2E-9      |
| 415 | 3.43         | 21.3E-9     | 26.2E-9      | 846.6E-3   | 137.0E-3     | 17.85        | -1.6E-9      | 3.42             | 20.5E-9     | 25.6E-9      | 846.0E-3   | 135.8E-3     | 17.78        | -2.8E-9      |
| 416 | 3.42         | 16.8E-9     | 26.6E-9      | 850.3E-3   | 137.8E-3     | 17.79        | -1.5E-9      | 3.41             | 16.4E-9     | 26.0E-9      | 849.6E-3   | 136.7E-3     | 17.63        | -2.9E-9      |
| 417 | 3.43         | 21.7E-9     | 25.6E-9      | 845.9E-3   | 136.3E-3     | 17.81        | -1.5E-9      | 3.41             | 21.0E-9     | 24.4E-9      | 845.2E-3   | 135.0E-3     | 17.71        | -2.2E-9      |
| 418 | 3.42         | 19.8E-9     | 25.2E-9      | 848.4E-3   | 137.2E-3     | 17.69        | -2.3E-9      | 3.42             | 18.4E-9     | 24.8E-9      | 848.0E-3   | 136.0E-3     | 17.65        | -2.8E-9      |
| 419 | 3.42         | 22.4E-9     | 23.3E-9      | 848.5E-3   | 135.8E-3     | 17.81        | -1.7E-9      | 3.42             | 21.5E-9     | 22.8E-9      | 848.0E-3   | 134.4E-3     | 17.68        | -2.4E-9      |
| 420 | 3.43         | 23.9E-9     | 25.2E-9      | 846.0E-3   | 135.6E-3     | 17.76        | -888.1E-12   | 3.41             | 22.5E-9     | 24.8E-9      | 845.6E-3   | 135.3E-3     | 17.69        | -1.8E-9      |
| 421 | 3.43         | 19.6E-9     | 49.5E-9      | 846.7E-3   | 135.4E-3     | 17.70        | -675.4E-12   | 3.42             | 18.4E-9     | 48.0E-9      | 846.4E-3   | 134.5E-3     | 17.66        | -2.2E-9      |
| 422 | 3.43         | 20.5E-9     | 24.8E-9      | 845.8E-3   | 134.7E-3     | 17.72        | -1.3E-9      | 3.41             | 19.5E-9     | 23.6E-9      | 844.8E-3   | 134.5E-3     | 17.69        | -2.6E-9      |
| 423 | 3.45         | 20.0E-9     | 27.4E-9      | 846.4E-3   | 132.2E-3     | 17.64        | -893.3E-12   | 3.44             | 19.5E-9     | 26.4E-9      | 846.0E-3   | 131.8E-3     | 17.59        | -1.9E-9      |
| 424 | 3.48         | 22.2E-9     | 27.4E-9      | 846.9E-3   | 130.2E-3     | 17.78        | -50.8E-12    | 3.47             | 21.0E-9     | 26.0E-9      | 846.0E-3   | 130.0E-3     | 17.63        | -960.0E-12   |
| 425 | 3.41         | 18.9E-9     | 27.5E-9      | 847.0E-3   | 132.4E-3     | 17.77        | -1.1E-9      | 3.40             | 17.9E-9     | 26.8E-9      | 846.4E-3   | 131.4E-3     | 17.69        | -2.6E-9      |

**High Temperature Storage**  
**Mil-Std 750 M 1032, 340hrs, 150°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |              |              |              | 340Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 426 | 3.41         | 18.4E-9     | 27.2E-9      | 847.0E-3   | 132.7E-3     | 17.62        | -1.5E-9      | 3.40             | 17.4E-9     | 26.0E-9      | 846.4E-3   | 131.7E-3     | 17.62        | -2.2E-9      |
| 427 | 3.40         | 17.9E-9     | 27.0E-9      | 846.6E-3   | 131.9E-3     | 17.78        | -2.6E-9      | 3.39             | 16.4E-9     | 26.4E-9      | 846.0E-3   | 130.8E-3     | 17.68        | -3.9E-9      |
| 428 | 3.42         | 21.5E-9     | 27.0E-9      | 846.8E-3   | 131.6E-3     | 17.77        | -562.1E-12   | 3.40             | 20.5E-9     | 26.0E-9      | 846.0E-3   | 131.1E-3     | 17.69        | -1.6E-9      |
| 429 | 3.38         | 23.5E-9     | 89.9E-9      | 846.9E-3   | 132.9E-3     | 17.80        | -2.0E-9      | 3.36             | 22.5E-9     | 88.4E-9      | 846.4E-3   | 132.2E-3     | 17.76        | -2.6E-9      |
| 430 | 3.39         | 21.1E-9     | 27.6E-9      | 846.8E-3   | 132.1E-3     | 17.78        | -2.5E-9      | 3.39             | 20.5E-9     | 26.8E-9      | 846.4E-3   | 131.4E-3     | 17.76        | -3.5E-9      |
| 431 | 3.39         | 25.8E-9     | 29.5E-9      | 846.7E-3   | 133.0E-3     | 17.95        | -1.4E-9      | 3.38             | 24.6E-9     | 28.4E-9      | 846.0E-3   | 132.7E-3     | 17.78        | -3.0E-9      |
| 432 | 3.36         | 17.9E-9     | 17.2E-9      | 845.2E-3   | 132.8E-3     | 17.77        | -1.0E-9      | 3.28             | 21.5E-9     | 26.0E-9      | 847.2E-3   | 138.6E-3     | 19.06        | -2.0E-9      |
| 433 | 3.27         | 21.5E-9     | 21.6E-9      | 847.2E-3   | 140.2E-3     | 19.02        | 4.7E-9       | 3.35             | 17.9E-9     | 28.4E-9      | 842.8E-3   | 133.6E-3     | 17.68        | -2.4E-9      |
| 434 | 3.16         | 25.1E-9     | 19.6E-9      | 847.6E-3   | 138.0E-3     | 19.84        | -800.0E-12   | 3.16             | 22.8E-9     | 35.6E-9      | 846.4E-3   | 137.9E-3     | 19.79        | -3.1E-9      |
| 435 | 3.20         | 24.6E-9     | 20.8E-9      | 846.8E-3   | 139.3E-3     | 19.18        | -1.0E-9      | 3.20             | 16.9E-9     | 26.4E-9      | 846.8E-3   | 138.2E-3     | 19.06        | -2.3E-9      |
| 436 | 3.25         | 21.0E-9     | 19.6E-9      | 848.0E-3   | 138.7E-3     | 19.07        | -840.0E-12   | 3.25             | 25.1E-9     | 26.4E-9      | 846.8E-3   | 138.2E-3     | 19.08        | -2.2E-9      |
| 437 | 3.30         | 22.0E-9     | 19.6E-9      | 846.8E-3   | 138.8E-3     | 18.68        | -760.0E-12   | 3.29             | 24.6E-9     | 26.4E-9      | 846.4E-3   | 138.8E-3     | 18.65        | -2.0E-9      |
| 438 | 3.21         | 22.8E-9     | 20.4E-9      | 847.2E-3   | 138.8E-3     | 19.08        | -1.1E-9      | 3.21             | 27.7E-9     | 28.4E-9      | 845.6E-3   | 138.7E-3     | 19.06        | -3.0E-9      |
| 439 | 3.36         | 18.4E-9     | 20.0E-9      | 848.0E-3   | 138.4E-3     | 18.28        | -720.0E-12   | 3.35             | 20.7E-9     | 26.8E-9      | 845.6E-3   | 138.6E-3     | 18.20        | -2.3E-9      |
| 440 | 3.35         | 17.4E-9     | 18.4E-9      | 847.2E-3   | 137.3E-3     | 18.06        | -1.1E-9      | 3.34             | 18.9E-9     | 26.0E-9      | 849.6E-3   | 138.7E-3     | 17.96        | -2.7E-9      |
| 441 | 3.36         | 17.4E-9     | 19.6E-9      | 847.2E-3   | 137.9E-3     | 18.11        | -1.2E-9      | 3.35             | 24.6E-9     | 26.8E-9      | 852.0E-3   | 138.7E-3     | 17.99        | -2.3E-9      |
| 442 | 3.35         | 18.7E-9     | 17.6E-9      | 847.2E-3   | 135.9E-3     | 17.96        | -840.0E-12   | 3.35             | 22.0E-9     | 26.0E-9      | 844.8E-3   | 136.2E-3     | 17.92        | -2.7E-9      |
| 443 | 3.35         | 18.4E-9     | 18.8E-9      | 846.4E-3   | 138.1E-3     | 18.01        | 2.2E-9       | 3.35             | 17.4E-9     | 26.0E-9      | 846.0E-3   | 136.9E-3     | 18.00        | -3.3E-9      |
| 444 | 3.35         | 20.0E-9     | 18.8E-9      | 846.8E-3   | 133.4E-3     | 17.81        | -1.8E-9      | 3.35             | 22.5E-9     | 27.2E-9      | 845.6E-3   | 133.6E-3     | 17.77        | -2.7E-9      |
| 445 | 3.35         | 17.9E-9     | 18.0E-9      | 846.4E-3   | 135.4E-3     | 17.93        | -800.0E-12   | 3.35             | 24.6E-9     | 26.8E-9      | 848.4E-3   | 134.6E-3     | 17.90        | -2.7E-9      |
| 446 | 3.36         | 20.5E-9     | 16.8E-9      | 847.6E-3   | 132.2E-3     | 17.76        | -320.0E-12   | 3.35             | 23.6E-9     | 26.0E-9      | 846.4E-3   | 132.0E-3     | 17.70        | -2.2E-9      |
| 447 | 3.35         | 21.0E-9     | 17.6E-9      | 846.8E-3   | 132.8E-3     | 17.81        | -960.0E-12   | 3.35             | 22.5E-9     | 26.0E-9      | 856.4E-3   | 133.0E-3     | 17.65        | -2.3E-9      |
| 448 | 3.36         | 26.6E-9     | 18.4E-9      | 847.2E-3   | 133.0E-3     | 17.82        | -840.0E-12   | 3.36             | 21.5E-9     | 24.0E-9      | 846.0E-3   | 132.5E-3     | 17.75        | -2.5E-9      |
| 449 | 3.35         | 19.7E-9     | 17.6E-9      | 847.2E-3   | 132.8E-3     | 17.76        | -880.0E-12   | 3.35             | 22.5E-9     | 22.8E-9      | 849.6E-3   | 132.0E-3     | 17.72        | -1.8E-9      |
| 450 | 3.36         | 20.5E-9     | 19.2E-9      | 846.8E-3   | 133.2E-3     | 17.78        | -960.0E-12   | 3.36             | 23.6E-9     | 26.8E-9      | 845.6E-3   | 132.6E-3     | 17.74        | -2.0E-9      |

**High Temperature Storage**  
**Mil-Std 750 M 1032, 340hrs, 150°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |              |              |              | 340Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 451 | 3.36         | 19.5E-9     | 18.4E-9      | 846.8E-3   | 132.8E-3     | 17.83        | 440.0E-12    | 3.35             | 21.5E-9     | 26.0E-9      | 844.0E-3   | 133.5E-3     | 17.74        | -2.8E-9      |
| 452 | 3.36         | 16.9E-9     | 18.8E-9      | 847.6E-3   | 139.1E-3     | 18.34        | -840.0E-12   | 3.35             | 17.7E-9     | 27.6E-9      | 845.2E-3   | 139.3E-3     | 18.22        | -2.8E-9      |
| 453 | 3.36         | 16.4E-9     | 18.4E-9      | 846.8E-3   | 139.8E-3     | 18.41        | -760.0E-12   | 3.35             | 18.9E-9     | 27.6E-9      | 847.6E-3   | 139.6E-3     | 18.32        | -3.2E-9      |
| 454 | 3.35         | 16.9E-9     | 18.8E-9      | 847.6E-3   | 137.4E-3     | 18.17        | -760.0E-12   | 3.33             | 21.8E-9     | 26.8E-9      | 844.8E-3   | 138.5E-3     | 18.08        | -2.6E-9      |
| 455 | 3.35         | 15.4E-9     | 17.6E-9      | 848.0E-3   | 137.8E-3     | 18.18        | -800.0E-12   | 3.34             | 20.5E-9     | 26.4E-9      | 845.6E-3   | 138.0E-3     | 18.14        | -2.5E-9      |
| 456 | 3.35         | 19.5E-9     | 18.0E-9      | 846.8E-3   | 136.5E-3     | 18.12        | -600.0E-12   | 3.34             | 22.5E-9     | 26.4E-9      | 845.2E-3   | 136.1E-3     | 18.08        | -3.7E-9      |
| 457 | 3.35         | 21.5E-9     | 19.2E-9      | 846.8E-3   | 135.6E-3     | 18.06        | -840.0E-12   | 3.35             | 25.1E-9     | 34.8E-9      | 845.6E-3   | 135.1E-3     | 18.02        | -2.5E-9      |
| 458 | 3.36         | 22.5E-9     | 18.0E-9      | 848.0E-3   | 134.8E-3     | 18.05        | -1.1E-9      | 3.36             | 26.6E-9     | 27.2E-9      | 846.0E-3   | 134.5E-3     | 17.96        | -3.2E-9      |
| 459 | 3.35         | 21.5E-9     | 18.4E-9      | 846.8E-3   | 134.7E-3     | 18.01        | -400.0E-12   | 3.35             | 25.1E-9     | 27.2E-9      | 846.8E-3   | 134.3E-3     | 17.92        | -3.4E-9      |
| 460 | 3.36         | 20.5E-9     | 18.0E-9      | 847.2E-3   | 133.8E-3     | 18.00        | -720.0E-12   | 3.35             | 27.1E-9     | 47.6E-9      | 844.8E-3   | 134.0E-3     | 17.92        | -2.4E-9      |
| 461 | 3.34         | 19.7E-9     | 111.2E-9     | 847.2E-3   | 132.2E-3     | 17.92        | -1.1E-9      | 3.34             | 21.0E-9     | 121.2E-9     | 846.4E-3   | 132.1E-3     | 17.88        | -9.2E-9      |
| 462 | 3.35         | 19.5E-9     | 19.6E-9      | 846.4E-3   | 132.7E-3     | 17.90        | 200.0E-12    | 3.34             | 20.5E-9     | 28.0E-9      | 844.8E-3   | 133.4E-3     | 17.87        | -3.3E-9      |
| 463 | 3.35         | 20.5E-9     | 20.4E-9      | 846.8E-3   | 132.6E-3     | 17.92        | -720.0E-12   | 3.34             | 21.5E-9     | 27.2E-9      | 844.4E-3   | 132.1E-3     | 17.89        | -2.9E-9      |
| 464 | 3.35         | 18.4E-9     | 17.6E-9      | 846.4E-3   | 132.4E-3     | 17.93        | -440.0E-12   | 3.34             | 19.5E-9     | 26.0E-9      | 845.2E-3   | 133.0E-3     | 17.89        | -2.7E-9      |
| 465 | 3.36         | 20.5E-9     | 19.6E-9      | 847.2E-3   | 131.8E-3     | 17.98        | -680.0E-12   | 3.36             | 18.7E-9     | 93.2E-9      | 845.6E-3   | 131.4E-3     | 17.95        | -2.2E-9      |
| 466 | 3.35         | 19.5E-9     | 19.6E-9      | 846.4E-3   | 131.9E-3     | 17.92        | -920.0E-12   | 3.35             | 24.6E-9     | 27.2E-9      | 844.8E-3   | 131.3E-3     | 17.88        | -2.6E-9      |
| 467 | 3.43         | 18.4E-9     | 17.6E-9      | 848.4E-3   | 140.7E-3     | 17.87        | -80.0E-12    | 3.43             | 19.5E-9     | 26.0E-9      | 846.8E-3   | 140.9E-3     | 17.83        | -2.2E-9      |
| 468 | 3.45         | 16.4E-9     | 18.4E-9      | 847.2E-3   | 140.1E-3     | 17.96        | -480.0E-12   | 3.43             | 18.4E-9     | 27.6E-9      | 844.4E-3   | 141.2E-3     | 17.84        | -1.9E-9      |
| 469 | 3.41         | 18.4E-9     | 16.8E-9      | 847.2E-3   | 139.8E-3     | 17.78        | 160.0E-12    | 3.40             | 22.0E-9     | 26.4E-9      | 846.4E-3   | 140.2E-3     | 17.80        | -600.0E-12   |
| 470 | 3.42         | 17.9E-9     | 18.4E-9      | 846.4E-3   | 141.4E-3     | 17.88        | 1.3E-9       | 3.42             | 18.9E-9     | 32.4E-9      | 846.0E-3   | 140.2E-3     | 17.80        | -2.2E-9      |
| 471 | 3.40         | 21.0E-9     | 17.6E-9      | 846.8E-3   | 139.0E-3     | 17.81        | 17.4E-9      | 3.40             | 19.5E-9     | 35.6E-9      | 846.8E-3   | 138.1E-3     | 17.77        | -2.8E-9      |
| 472 | 3.41         | 19.5E-9     | 18.0E-9      | 847.2E-3   | 140.1E-3     | 17.80        | -760.0E-12   | 3.41             | 21.5E-9     | 24.4E-9      | 849.6E-3   | 139.1E-3     | 17.75        | -2.6E-9      |
| 473 | 3.41         | 22.5E-9     | 17.2E-9      | 847.2E-3   | 137.6E-3     | 17.82        | -800.0E-12   | 3.40             | 25.6E-9     | 24.0E-9      | 845.6E-3   | 137.5E-3     | 17.80        | -3.1E-9      |
| 474 | 3.41         | 21.0E-9     | 16.8E-9      | 846.8E-3   | 139.0E-3     | 17.87        | -1.0E-9      | 3.40             | 23.0E-9     | 26.0E-9      | 845.2E-3   | 139.0E-3     | 17.82        | -2.3E-9      |
| 475 | 3.39         | 22.5E-9     | 17.2E-9      | 847.2E-3   | 136.2E-3     | 17.78        | 000.0E+0     | 3.38             | 28.7E-9     | 24.4E-9      | 846.4E-3   | 135.5E-3     | 17.78        | -2.6E-9      |
| 476 | 3.38         | 21.0E-9     | 17.2E-9      | 848.0E-3   | 134.3E-3     | 17.81        | -640.0E-12   | 3.37             | 24.6E-9     | 25.2E-9      | 850.8E-3   | 134.1E-3     | 17.71        | -2.1E-9      |
| 477 | 3.37         | 23.6E-9     | 18.4E-9      | 847.2E-3   | 134.1E-3     | 17.98        | -920.0E-12   | 3.37             | 27.1E-9     | 26.0E-9      | 846.8E-3   | 132.7E-3     | 17.90        | -2.8E-9      |

**High Temperature Storage**  
**Mil-Std 750 M 1032, 340hrs, 150°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |              |              |              | 340Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 721 | 3.15         | 16.4E-9     | 38.8E-9      | 846.4E-3   | 130.9E-3     | 18.54        | -8.5E-9      | 3.15             | 16.4E-9     | 38.8E-9      | 844.8E-3   | 129.4E-3     | 18.46        | -5.9E-9      |
| 722 | 3.15         | 16.9E-9     | 32.4E-9      | 846.8E-3   | 130.4E-3     | 18.58        | -7.8E-9      | 3.14             | 19.5E-9     | 39.6E-9      | 846.8E-3   | 130.3E-3     | 18.41        | -7.4E-9      |
| 723 | 3.14         | 16.4E-9     | 32.4E-9      | 847.2E-3   | 130.3E-3     | 18.54        | -5.6E-9      | 3.13             | 17.4E-9     | 34.8E-9      | 844.8E-3   | 130.0E-3     | 18.38        | -6.9E-9      |
| 724 | 3.16         | 12.3E-9     | 44.0E-9      | 846.0E-3   | 122.9E-3     | 18.53        | -2.0E-9      | 3.15             | 17.7E-9     | 46.0E-9      | 844.0E-3   | 122.1E-3     | 18.36        | -6.9E-9      |
| 725 | 3.15         | 16.9E-9     | 40.4E-9      | 846.8E-3   | 123.6E-3     | 18.58        | -3.0E-9      | 3.14             | 17.4E-9     | 44.4E-9      | 844.0E-3   | 123.5E-3     | 18.42        | -6.6E-9      |
| 726 | 3.18         | 14.9E-9     | 48.8E-9      | 846.0E-3   | 121.8E-3     | 18.41        | -6.6E-9      | 3.17             | 18.4E-9     | 51.6E-9      | 843.2E-3   | 121.0E-3     | 18.32        | -6.3E-9      |
| 727 | 3.16         | 13.3E-9     | 48.4E-9      | 846.0E-3   | 122.9E-3     | 18.44        | 7.7E-9       | 3.16             | 17.9E-9     | 52.4E-9      | 843.6E-3   | 122.3E-3     | 18.40        | -7.4E-9      |
| 728 | 3.19         | 14.3E-9     | 48.0E-9      | 846.8E-3   | 120.2E-3     | 18.28        | -3.8E-9      | 3.18             | 16.4E-9     | 52.0E-9      | 844.8E-3   | 120.0E-3     | 18.18        | -6.5E-9      |
| 729 | 3.19         | 13.3E-9     | 53.2E-9      | 846.0E-3   | 120.7E-3     | 18.35        | -3.8E-9      | 3.18             | 14.9E-9     | 57.6E-9      | 843.2E-3   | 120.5E-3     | 18.23        | -6.3E-9      |
| 730 | 3.22         | 10.8E-9     | 58.0E-9      | 847.2E-3   | 119.3E-3     | 18.31        | -6.1E-9      | 3.21             | 13.3E-9     | 63.6E-9      | 844.0E-3   | 118.8E-3     | 18.14        | -6.0E-9      |
| 731 | 3.20         | 14.9E-9     | 42.8E-9      | 846.4E-3   | 119.7E-3     | 18.23        | -80.0E-12    | 3.19             | 18.4E-9     | 46.8E-9      | 843.6E-3   | 119.4E-3     | 18.16        | -5.7E-9      |
| 732 | 3.23         | 10.8E-9     | 38.0E-9      | 846.4E-3   | 119.3E-3     | 18.16        | -4.8E-9      | 3.22             | 11.3E-9     | 40.0E-9      | 844.4E-3   | 118.3E-3     | 18.08        | -5.9E-9      |
| 733 | 3.20         | 12.5E-9     | 48.8E-9      | 847.6E-3   | 122.6E-3     | 18.37        | -7.0E-9      | 3.18             | 17.4E-9     | 58.8E-9      | 848.4E-3   | 123.7E-3     | 18.13        | -6.4E-9      |
| 734 | 3.18         | 16.4E-9     | 44.4E-9      | 846.8E-3   | 123.8E-3     | 18.38        | 4.8E-9       | 3.17             | 18.9E-9     | 49.2E-9      | 844.4E-3   | 123.4E-3     | 18.30        | -5.2E-9      |
| 735 | 3.19         | 12.8E-9     | 46.0E-9      | 847.2E-3   | 123.5E-3     | 18.40        | -6.0E-9      | 3.17             | 16.4E-9     | 54.0E-9      | 843.6E-3   | 124.1E-3     | 18.26        | -5.6E-9      |
| 736 | 3.17         | 14.9E-9     | 41.2E-9      | 846.8E-3   | 124.9E-3     | 18.38        | -7.3E-9      | 3.16             | 20.5E-9     | 47.6E-9      | 844.0E-3   | 124.9E-3     | 18.34        | -6.8E-9      |
| 737 | 3.16         | 17.4E-9     | 43.6E-9      | 846.4E-3   | 125.3E-3     | 18.36        | -2.9E-9      | 3.15             | 20.5E-9     | 48.0E-9      | 844.0E-3   | 125.0E-3     | 18.30        | -6.4E-9      |
| 738 | 3.18         | 17.4E-9     | 38.4E-9      | 847.2E-3   | 127.9E-3     | 18.34        | -2.1E-9      | 3.17             | 17.9E-9     | 42.4E-9      | 844.0E-3   | 127.8E-3     | 18.19        | -5.4E-9      |
| 739 | 3.16         | 18.4E-9     | 37.2E-9      | 847.2E-3   | 128.9E-3     | 18.32        | -3.0E-9      | 3.15             | 21.5E-9     | 42.0E-9      | 849.2E-3   | 129.9E-3     | 18.19        | -6.6E-9      |
| 740 | 3.17         | 16.4E-9     | 34.0E-9      | 845.6E-3   | 124.6E-3     | 18.30        | -7.0E-9      | 3.15             | 19.5E-9     | 37.6E-9      | 843.2E-3   | 125.1E-3     | 18.25        | -6.8E-9      |
| 741 | 3.18         | 16.4E-9     | 38.8E-9      | 846.4E-3   | 127.9E-3     | 18.28        | -10.5E-9     | 3.17             | 17.9E-9     | 39.2E-9      | 844.4E-3   | 127.0E-3     | 18.23        | -6.2E-9      |
| 742 | 3.17         | 16.4E-9     | 36.8E-9      | 846.8E-3   | 123.1E-3     | 18.38        | -6.4E-9      | 3.16             | 16.4E-9     | 40.0E-9      | 843.2E-3   | 123.3E-3     | 18.22        | -6.1E-9      |
| 743 | 3.18         | 16.4E-9     | 35.6E-9      | 846.4E-3   | 124.0E-3     | 18.28        | -1.8E-9      | 3.17             | 17.9E-9     | 38.8E-9      | 844.0E-3   | 123.9E-3     | 18.23        | -7.4E-9      |
| 744 | 3.22         | 12.3E-9     | 48.8E-9      | 847.2E-3   | 121.1E-3     | 18.25        | -6.0E-9      | 3.21             | 12.8E-9     | 56.0E-9      | 847.2E-3   | 121.2E-3     | 18.06        | -5.5E-9      |
| 745 | 3.21         | 13.3E-9     | 47.2E-9      | 846.8E-3   | 121.4E-3     | 18.30        | -6.8E-9      | 3.20             | 17.4E-9     | 51.6E-9      | 844.0E-3   | 121.2E-3     | 18.22        | -5.0E-9      |

**High Temperature Storage**  
**Mil-Std 750 M 1032, 340hrs, 150°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |              |              |              | 340Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 746 | 3.24         | 9.2E-9      | 49.2E-9      | 845.6E-3   | 121.5E-3     | 18.24        | -6.2E-9      | 3.24             | 11.3E-9     | 52.4E-9      | 847.2E-3   | 120.5E-3     | 18.13        | -5.8E-9      |
| 747 | 3.23         | 9.7E-9      | 48.4E-9      | 845.6E-3   | 121.0E-3     | 18.23        | -5.8E-9      | 3.22             | 14.6E-9     | 50.4E-9      | 844.0E-3   | 120.2E-3     | 18.11        | -6.8E-9      |
| 748 | 3.21         | 13.3E-9     | 60.4E-9      | 846.0E-3   | 121.7E-3     | 18.30        | -6.8E-9      | 3.19             | 17.7E-9     | 66.0E-9      | 849.2E-3   | 121.9E-3     | 18.17        | -6.3E-9      |
| 749 | 3.23         | 11.3E-9     | 41.2E-9      | 846.8E-3   | 121.0E-3     | 18.26        | -3.8E-9      | 3.22             | 12.8E-9     | 47.2E-9      | 846.4E-3   | 120.7E-3     | 18.12        | -5.8E-9      |
| 750 | 3.14         | 14.3E-9     | 25.6E-9      | 847.2E-3   | 121.2E-3     | 18.58        | -6.8E-9      | 3.14             | 17.4E-9     | 29.2E-9      | 844.4E-3   | 120.6E-3     | 18.52        | -6.9E-9      |
| 751 | 3.16         | 12.8E-9     | 24.8E-9      | 847.6E-3   | 122.2E-3     | 18.49        | 2.1E-9       | 3.15             | 16.6E-9     | 26.8E-9      | 845.6E-3   | 121.7E-3     | 18.40        | -6.2E-9      |
| 752 | 3.23         | 10.8E-9     | 22.4E-9      | 847.2E-3   | 117.9E-3     | 18.29        | -4.7E-9      | 3.23             | 13.3E-9     | 24.0E-9      | 845.2E-3   | 117.5E-3     | 18.20        | -4.8E-9      |
| 753 | 3.19         | 11.3E-9     | 26.8E-9      | 847.2E-3   | 119.8E-3     | 18.37        | 24.0E-9      | 3.18             | 16.4E-9     | 29.2E-9      | 846.4E-3   | 119.1E-3     | 18.34        | -1.9E-9      |
| 754 | 3.17         | 11.8E-9     | 27.6E-9      | 846.8E-3   | 120.5E-3     | 18.53        | -3.6E-9      | 3.17             | 15.4E-9     | 26.8E-9      | 845.6E-3   | 119.3E-3     | 18.44        | -7.2E-9      |
| 755 | 3.17         | 13.8E-9     | 26.0E-9      | 845.6E-3   | 128.6E-3     | 18.31        | -4.9E-9      | 3.12             | 17.4E-9     | 27.6E-9      | 845.6E-3   | 120.5E-3     | 18.58        | -6.6E-9      |
| 756 | 3.13         | 12.5E-9     | 25.2E-9      | 847.2E-3   | 121.5E-3     | 18.76        | 1.8E-9       | 3.12             | 15.4E-9     | 27.2E-9      | 844.8E-3   | 120.9E-3     | 18.62        | -7.5E-9      |
| 757 | 3.17         | 12.8E-9     | 42.0E-9      | 847.6E-3   | 127.8E-3     | 18.40        | -6.5E-9      | 3.16             | 16.9E-9     | 46.0E-9      | 844.0E-3   | 127.3E-3     | 18.29        | -6.3E-9      |
| 758 | 3.12         | 12.3E-9     | 26.0E-9      | 846.4E-3   | 121.8E-3     | 18.67        | -2.8E-9      | 3.16             | 13.8E-9     | 26.8E-9      | 842.8E-3   | 128.8E-3     | 18.20        | -6.0E-9      |
| 759 | 3.21         | 12.3E-9     | 24.0E-9      | 846.8E-3   | 127.5E-3     | 18.42        | -2.2E-9      | 3.20             | 13.3E-9     | 29.6E-9      | 846.4E-3   | 127.3E-3     | 18.22        | -5.7E-9      |
| 760 | 3.19         | 12.3E-9     | 25.2E-9      | 847.6E-3   | 127.7E-3     | 18.37        | -2.3E-9      | 3.17             | 15.4E-9     | 34.4E-9      | 848.4E-3   | 128.3E-3     | 18.17        | -6.4E-9      |
| 761 | 3.15         | 16.4E-9     | 23.2E-9      | 847.2E-3   | 124.9E-3     | 18.83        | -1.8E-9      | 3.14             | 17.4E-9     | 27.6E-9      | 845.2E-3   | 124.6E-3     | 18.74        | -7.8E-9      |
| 762 | 3.23         | 9.2E-9      | 25.2E-9      | 846.0E-3   | 128.1E-3     | 18.23        | -5.8E-9      | 3.23             | 14.3E-9     | 28.0E-9      | 846.8E-3   | 126.2E-3     | 18.16        | -6.3E-9      |
| 763 | 3.13         | 14.3E-9     | 26.8E-9      | 846.8E-3   | 121.0E-3     | 18.92        | -4.3E-9      | 3.12             | 16.9E-9     | 32.8E-9      | 844.4E-3   | 121.6E-3     | 18.71        | -7.6E-9      |
| 764 | 3.19         | 11.3E-9     | 21.6E-9      | 847.2E-3   | 129.6E-3     | 18.59        | -6.7E-9      | 3.16             | 16.4E-9     | 26.8E-9      | 842.8E-3   | 131.3E-3     | 18.44        | -6.8E-9      |
| 765 | 3.16         | 12.3E-9     | 26.0E-9      | 846.4E-3   | 126.3E-3     | 18.82        | -7.1E-9      | 3.13             | 13.3E-9     | 29.2E-9      | 850.0E-3   | 121.0E-3     | 18.41        | -6.6E-9      |
| 766 | 3.25         | 9.2E-9      | 20.0E-9      | 848.8E-3   | 127.2E-3     | 18.34        | -5.0E-9      | 3.24             | 8.2E-9      | 18.8E-9      | 846.4E-3   | 127.4E-3     | 18.20        | -4.6E-9      |
| 767 | 3.19         | 12.8E-9     | 24.8E-9      | 846.4E-3   | 127.4E-3     | 18.37        | -6.3E-9      | 3.18             | 13.8E-9     | 27.2E-9      | 852.0E-3   | 127.0E-3     | 18.18        | -5.9E-9      |
| 768 | 3.20         | 12.3E-9     | 26.0E-9      | 846.0E-3   | 127.9E-3     | 18.34        | -5.8E-9      | 3.20             | 15.4E-9     | 28.4E-9      | 848.4E-3   | 126.3E-3     | 18.19        | -5.6E-9      |
| 769 | 3.16         | 12.5E-9     | 25.6E-9      | 846.4E-3   | 126.7E-3     | 18.42        | -5.9E-9      | 3.16             | 14.9E-9     | 26.0E-9      | 851.6E-3   | 125.4E-3     | 18.24        | -6.4E-9      |
| 770 | 3.16         | 14.3E-9     | 23.2E-9      | 846.4E-3   | 125.2E-3     | 18.48        | -5.7E-9      | 3.15             | 16.4E-9     | 26.0E-9      | 844.0E-3   | 125.0E-3     | 18.35        | -5.4E-9      |

**High Temperature Storage**  
**Mil-Std 750 M 1032, 340hrs, 150°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |              |              |              | 340Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 771 | 3.15         | 14.6E-9     | 26.8E-9      | 845.2E-3   | 122.1E-3     | 18.80        | -6.2E-9      | 3.14             | 19.5E-9     | 30.0E-9      | 843.2E-3   | 121.4E-3     | 18.67        | -7.6E-9      |
| 772 | 3.16         | 12.5E-9     | 28.0E-9      | 846.4E-3   | 121.7E-3     | 18.50        | -6.7E-9      | 3.15             | 17.4E-9     | 28.4E-9      | 843.2E-3   | 121.2E-3     | 18.37        | -6.3E-9      |
| 773 | 3.18         | 17.9E-9     | 33.2E-9      | 847.2E-3   | 133.0E-3     | 18.74        | -2.5E-9      | 3.16             | 18.9E-9     | 37.6E-9      | 849.2E-3   | 134.3E-3     | 18.55        | -7.6E-9      |
| 774 | 3.16         | 13.8E-9     | 39.2E-9      | 847.2E-3   | 132.9E-3     | 18.76        | -6.0E-9      | 3.15             | 16.4E-9     | 41.2E-9      | 845.6E-3   | 132.5E-3     | 18.66        | -8.0E-9      |
| 775 | 3.22         | 14.3E-9     | 30.0E-9      | 847.6E-3   | 130.6E-3     | 18.47        | -2.8E-9      | 3.21             | 16.4E-9     | 33.6E-9      | 846.0E-3   | 131.1E-3     | 18.36        | -6.6E-9      |
| 776 | 3.15         | 15.4E-9     | 29.2E-9      | 847.6E-3   | 130.4E-3     | 18.48        | -8.3E-9      | 3.13             | 19.5E-9     | 30.4E-9      | 844.4E-3   | 130.3E-3     | 18.36        | -6.7E-9      |
| 777 | 3.23         | 16.9E-9     | 29.6E-9      | 848.4E-3   | 132.8E-3     | 18.61        | 1.4E-9       | 3.21             | 18.9E-9     | 32.0E-9      | 844.8E-3   | 133.1E-3     | 18.53        | -7.5E-9      |
| 778 | 3.25         | 16.4E-9     | 22.0E-9      | 847.6E-3   | 130.1E-3     | 18.59        | -6.8E-9      | 3.24             | 16.9E-9     | 24.4E-9      | 844.4E-3   | 129.4E-3     | 18.46        | -5.8E-9      |
| 779 | 3.16         | 14.3E-9     | 26.0E-9      | 846.4E-3   | 121.6E-3     | 18.64        | -6.1E-9      | 3.15             | 16.9E-9     | 27.6E-9      | 844.0E-3   | 120.9E-3     | 18.50        | -6.2E-9      |
| 780 | 3.13         | 12.5E-9     | 26.8E-9      | 845.2E-3   | 121.8E-3     | 18.82        | -9.3E-9      | 3.12             | 16.4E-9     | 29.2E-9      | 842.8E-3   | 121.3E-3     | 18.73        | -6.7E-9      |
| 781 | 3.17         | 14.9E-9     | 26.0E-9      | 846.0E-3   | 120.1E-3     | 18.62        | -7.4E-9      | 3.16             | 16.4E-9     | 29.2E-9      | 843.6E-3   | 119.8E-3     | 18.49        | -6.1E-9      |
| 782 | 3.15         | 12.3E-9     | 26.0E-9      | 846.0E-3   | 120.6E-3     | 18.66        | -6.3E-9      | 3.14             | 14.3E-9     | 27.6E-9      | 842.8E-3   | 126.6E-3     | 18.64        | -6.0E-9      |
| 783 | 3.18         | 13.8E-9     | 23.6E-9      | 846.8E-3   | 119.4E-3     | 18.49        | -2.4E-9      | 3.17             | 14.9E-9     | 28.0E-9      | 849.6E-3   | 120.3E-3     | 18.34        | -5.8E-9      |
| 784 | 3.21         | 13.8E-9     | 23.6E-9      | 846.8E-3   | 119.9E-3     | 18.48        | -5.8E-9      | 3.19             | 16.4E-9     | 27.2E-9      | 843.2E-3   | 120.2E-3     | 18.44        | -5.8E-9      |
| 785 | 3.16         | 14.9E-9     | 26.8E-9      | 846.8E-3   | 120.5E-3     | 18.65        | -6.6E-9      | 3.14             | 15.4E-9     | 30.0E-9      | 842.4E-3   | 121.2E-3     | 18.43        | -7.0E-9      |
| 786 | 3.16         | 14.9E-9     | 23.6E-9      | 847.2E-3   | 120.1E-3     | 18.55        | -13.1E-9     | 3.14             | 15.4E-9     | 28.8E-9      | 847.6E-3   | 120.8E-3     | 18.35        | -6.5E-9      |
| 787 | 3.17         | 16.4E-9     | 32.8E-9      | 847.6E-3   | 131.4E-3     | 18.60        | -8.3E-9      | 3.16             | 17.9E-9     | 34.0E-9      | 844.8E-3   | 131.0E-3     | 18.49        | -8.0E-9      |
| 788 | 3.19         | 16.9E-9     | 26.4E-9      | 846.0E-3   | 125.4E-3     | 18.43        | -7.4E-9      | 3.19             | 17.4E-9     | 27.2E-9      | 844.0E-3   | 124.8E-3     | 18.30        | -6.8E-9      |
| 789 | 3.26         | 13.3E-9     | 18.0E-9      | 845.6E-3   | 126.6E-3     | 18.13        | -2.1E-9      | 3.25             | 16.4E-9     | 19.6E-9      | 842.8E-3   | 126.5E-3     | 18.02        | -5.6E-9      |
| 790 | 3.22         | 17.9E-9     | 18.0E-9      | 844.8E-3   | 126.2E-3     | 18.22        | -2.3E-9      | 3.21             | 11.3E-9     | 21.2E-9      | 843.6E-3   | 126.4E-3     | 18.13        | -7.0E-9      |
| 791 | 3.24         | 17.4E-9     | 18.8E-9      | 846.4E-3   | 128.5E-3     | 18.22        | -3.9E-9      | 3.23             | 20.5E-9     | 19.2E-9      | 844.8E-3   | 127.3E-3     | 18.17        | -6.2E-9      |
| 792 | 3.25         | 16.6E-9     | 18.0E-9      | 845.2E-3   | 126.9E-3     | 18.14        | -3.6E-9      | 3.24             | 14.3E-9     | 18.8E-9      | 843.6E-3   | 125.7E-3     | 18.10        | -6.2E-9      |
| 793 | 3.20         | 16.4E-9     | 18.8E-9      | 846.4E-3   | 128.9E-3     | 18.32        | -4.6E-9      | 3.19             | 17.4E-9     | 22.8E-9      | 847.2E-3   | 128.5E-3     | 18.20        | -7.1E-9      |
| 794 | 3.25         | 16.6E-9     | 17.6E-9      | 846.4E-3   | 126.9E-3     | 18.16        | -6.5E-9      | 3.24             | 19.5E-9     | 19.6E-9      | 843.6E-3   | 126.4E-3     | 18.11        | -6.1E-9      |
| 795 | 3.17         | 14.3E-9     | 22.8E-9      | 846.0E-3   | 128.6E-3     | 18.52        | 10.4E-9      | 3.16             | 19.5E-9     | 26.0E-9      | 843.2E-3   | 128.7E-3     | 18.37        | -7.4E-9      |
| 796 | 3.21         | 16.9E-9     | 21.6E-9      | 846.8E-3   | 128.8E-3     | 18.31        | -6.2E-9      | 3.20             | 18.7E-9     | 22.8E-9      | 845.6E-3   | 128.3E-3     | 18.25        | -5.5E-9      |
| 797 | 3.16         | 14.9E-9     | 40.8E-9      | 845.2E-3   | 134.2E-3     | 18.54        | -5.9E-9      | 3.15             | 18.7E-9     | 42.8E-9      | 844.0E-3   | 134.7E-3     | 18.42        | -8.6E-9      |

# ***Steady State Gate Bias***

HTGB (Steady State +ve Gate Bias)

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 24V, 150°C**  
**Lot 6701**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 161 | 3.18         | 16.4E-9     | 27.6E-9      | 842.0E-3   | 135.8E-3     | 18.11        | 200.0E-12    | 3.20             | 27.1E-9     | 34.8E-9      | 840.8E-3   | 135.2E-3     | 18.10        | -2.2E-9      |
| 162 | 3.15         | 13.8E-9     | 36.4E-9      | 843.6E-3   | 133.0E-3     | 18.11        | -680.0E-12   | 3.18             | 16.9E-9     | 38.0E-9      | 842.4E-3   | 132.5E-3     | 18.14        | -1.9E-9      |
| 163 | 3.18         | 16.4E-9     | 26.8E-9      | 843.2E-3   | 135.5E-3     | 18.12        | -640.0E-12   | 3.21             | 23.6E-9     | 27.6E-9      | 842.8E-3   | 133.9E-3     | 18.19        | -1.6E-9      |
| 164 | 3.18         | 10.8E-9     | 36.0E-9      | 844.0E-3   | 131.2E-3     | 18.05        | -1.5E-9      | 3.19             | 14.3E-9     | 37.2E-9      | 843.6E-3   | 129.7E-3     | 18.05        | -2.4E-9      |
| 165 | 3.17         | 13.3E-9     | 34.8E-9      | 844.4E-3   | 131.8E-3     | 18.10        | -40.0E-12    | 3.19             | 16.4E-9     | 40.0E-9      | 842.8E-3   | 131.0E-3     | 18.13        | -1.6E-9      |
| 166 | 3.22         | 11.3E-9     | 40.0E-9      | 844.8E-3   | 129.8E-3     | 18.02        | -600.0E-12   | 3.25             | 12.5E-9     | 44.0E-9      | 844.0E-3   | 128.4E-3     | 18.02        | -1.7E-9      |
| 167 | 3.21         | 12.8E-9     | 37.6E-9      | 844.8E-3   | 130.3E-3     | 18.02        | -1.3E-9      | 3.24             | 16.4E-9     | 39.6E-9      | 844.0E-3   | 128.7E-3     | 18.08        | -1.6E-9      |
| 168 | 3.21         | 12.3E-9     | 34.4E-9      | 844.4E-3   | 131.1E-3     | 17.95        | -40.0E-12    | 3.23             | 14.9E-9     | 39.2E-9      | 843.2E-3   | 129.9E-3     | 17.95        | -1.7E-9      |
| 169 | 3.28         | 9.7E-9      | 35.6E-9      | 844.0E-3   | 129.8E-3     | 17.84        | 1.4E-9       | 3.31             | 12.3E-9     | 38.0E-9      | 844.0E-3   | 127.7E-3     | 17.90        | -280.0E-12   |
| 170 | 3.23         | 10.8E-9     | 33.2E-9      | 843.6E-3   | 130.4E-3     | 17.89        | 000.0E+0     | 3.27             | 15.4E-9     | 37.2E-9      | 843.2E-3   | 128.4E-3     | 17.95        | -1.8E-9      |
| 171 | 3.25         | 10.8E-9     | 54.4E-9      | 845.2E-3   | 129.3E-3     | 17.93        | -40.0E-12    | 3.29             | 12.3E-9     | 67.6E-9      | 844.4E-3   | 127.6E-3     | 17.96        | -640.0E-12   |
| 172 | 3.16         | 13.8E-9     | 45.2E-9      | 844.0E-3   | 131.4E-3     | 18.04        | -680.0E-12   | 3.19             | 16.4E-9     | 47.6E-9      | 844.0E-3   | 129.7E-3     | 17.99        | -1.7E-9      |
| 173 | 3.16         | 16.4E-9     | 28.0E-9      | 843.6E-3   | 139.1E-3     | 17.99        | -480.0E-12   | 3.20             | 20.5E-9     | 30.4E-9      | 843.6E-3   | 136.3E-3     | 18.07        | -2.5E-9      |
| 174 | 3.17         | 12.8E-9     | 32.4E-9      | 843.6E-3   | 132.1E-3     | 17.98        | -680.0E-12   | 3.20             | 18.4E-9     | 34.8E-9      | 843.6E-3   | 130.1E-3     | 18.04        | -2.8E-9      |
| 175 | 3.15         | 16.6E-9     | 33.2E-9      | 843.2E-3   | 138.6E-3     | 18.04        | -680.0E-12   | 3.20             | 21.0E-9     | 35.6E-9      | 844.4E-3   | 134.7E-3     | 18.06        | -2.5E-9      |
| 176 | 3.27         | 8.7E-9      | 32.0E-9      | 844.0E-3   | 130.1E-3     | 17.72        | -960.0E-12   | 3.31             | 9.7E-9      | 34.4E-9      | 843.6E-3   | 128.1E-3     | 17.80        | -2.1E-9      |
| 177 | 3.21         | 10.2E-9     | 28.8E-9      | 843.6E-3   | 140.7E-3     | 18.02        | 1.0E-9       | 3.25             | 11.5E-9     | 30.4E-9      | 843.2E-3   | 138.7E-3     | 18.08        | -1.7E-9      |
| 178 | 3.15         | 15.4E-9     | 28.8E-9      | 843.2E-3   | 138.8E-3     | 18.00        | 1.3E-9       | 3.19             | 20.5E-9     | 32.0E-9      | 843.2E-3   | 135.8E-3     | 18.08        | -2.6E-9      |
| 179 | 3.17         | 16.4E-9     | 26.8E-9      | 844.4E-3   | 138.1E-3     | 18.10        | 360.0E-12    | 3.21             | 17.7E-9     | 30.8E-9      | 844.0E-3   | 135.8E-3     | 18.04        | -1.8E-9      |
| 180 | 3.20         | 14.3E-9     | 30.8E-9      | 843.6E-3   | 139.7E-3     | 18.01        | -640.0E-12   | 3.24             | 16.4E-9     | 32.8E-9      | 844.4E-3   | 136.2E-3     | 18.02        | -2.4E-9      |
| 181 | 3.15         | 15.4E-9     | 30.8E-9      | 843.2E-3   | 133.9E-3     | 18.04        | -80.0E-12    | 3.19             | 17.4E-9     | 34.8E-9      | 844.0E-3   | 131.3E-3     | 18.07        | -1.5E-9      |
| 182 | 3.25         | 11.8E-9     | 30.4E-9      | 843.6E-3   | 139.9E-3     | 18.01        | -80.0E-12    | 3.28             | 10.2E-9     | 33.6E-9      | 843.6E-3   | 137.9E-3     | 18.07        | -1.4E-9      |
| 183 | 3.22         | 8.7E-9      | 28.8E-9      | 843.2E-3   | 140.5E-3     | 18.02        | 2.0E-9       | 3.27             | 12.8E-9     | 32.4E-9      | 844.0E-3   | 137.5E-3     | 18.10        | -2.4E-9      |
| 184 | 3.19         | 14.3E-9     | 28.8E-9      | 844.4E-3   | 138.8E-3     | 18.04        | -880.0E-12   | 3.22             | 21.5E-9     | 30.0E-9      | 844.4E-3   | 136.1E-3     | 18.07        | -1.8E-9      |
| 185 | 3.24         | 12.3E-9     | 35.6E-9      | 843.6E-3   | 140.3E-3     | 17.99        | 2.1E-9       | 3.29             | 14.3E-9     | 38.8E-9      | 844.4E-3   | 136.5E-3     | 18.07        | -2.7E-9      |



**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 24V, 150°C**  
**Lot 6701**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 186 | 3.26         | 8.2E-9      | 28.8E-9      | 843.6E-3   | 139.5E-3     | 17.93        | -440.0E-12   | 3.31             | 10.2E-9     | 30.8E-9      | 844.0E-3   | 136.9E-3     | 18.00        | -1.2E-9      |
| 187 | 3.26         | 9.2E-9      | 32.4E-9      | 843.2E-3   | 140.8E-3     | 18.00        | 9.8E-9       | 3.30             | 11.5E-9     | 34.0E-9      | 843.6E-3   | 138.3E-3     | 18.11        | -2.0E-9      |
| 188 | 3.24         | 9.7E-9      | 28.4E-9      | 843.6E-3   | 140.6E-3     | 17.95        | 600.0E-12    | 3.29             | 13.3E-9     | 31.2E-9      | 845.2E-3   | 137.0E-3     | 18.06        | -2.3E-9      |
| 189 | 3.25         | 10.2E-9     | 31.2E-9      | 843.6E-3   | 140.8E-3     | 17.94        | 920.0E-12    | 3.30             | 13.8E-9     | 33.2E-9      | 844.8E-3   | 137.1E-3     | 18.12        | -1.3E-9      |
| 190 | 3.21         | 13.8E-9     | 29.2E-9      | 844.0E-3   | 139.4E-3     | 17.98        | -800.0E-12   | 3.26             | 16.4E-9     | 32.0E-9      | 845.2E-3   | 136.1E-3     | 18.06        | -1.6E-9      |
| 191 | 3.21         | 11.3E-9     | 27.6E-9      | 843.6E-3   | 141.0E-3     | 18.04        | 160.0E-12    | 3.25             | 13.8E-9     | 31.2E-9      | 843.6E-3   | 138.7E-3     | 18.10        | -2.0E-9      |
| 192 | 3.22         | 11.3E-9     | 30.8E-9      | 844.4E-3   | 139.0E-3     | 17.96        | -960.0E-12   | 3.25             | 19.5E-9     | 34.4E-9      | 843.6E-3   | 136.5E-3     | 18.06        | -2.0E-9      |
| 193 | 3.20         | 13.8E-9     | 26.0E-9      | 843.2E-3   | 140.8E-3     | 17.99        | 200.0E-12    | 3.25             | 16.4E-9     | 28.4E-9      | 844.0E-3   | 137.9E-3     | 18.07        | -1.2E-9      |
| 194 | 3.22         | 10.8E-9     | 28.4E-9      | 844.0E-3   | 140.7E-3     | 17.96        | 880.0E-12    | 3.27             | 13.3E-9     | 30.8E-9      | 844.0E-3   | 138.2E-3     | 18.02        | -1.3E-9      |
| 195 | 3.20         | 16.4E-9     | 37.6E-9      | 844.0E-3   | 131.4E-3     | 17.84        | -160.0E-12   | 3.22             | 18.4E-9     | 35.6E-9      | 844.0E-3   | 129.3E-3     | 17.98        | -2.8E-9      |
| 196 | 3.22         | 11.3E-9     | 31.6E-9      | 844.0E-3   | 139.4E-3     | 17.95        | 6.8E-9       | 3.26             | 12.3E-9     | 34.4E-9      | 843.6E-3   | 136.5E-3     | 18.02        | -2.3E-9      |
| 197 | 3.17         | 15.4E-9     | 40.8E-9      | 843.6E-3   | 131.2E-3     | 17.95        | 160.0E-12    | 3.20             | 21.0E-9     | 43.6E-9      | 843.2E-3   | 129.7E-3     | 17.99        | -2.0E-9      |
| 198 | 3.17         | 15.4E-9     | 28.0E-9      | 843.6E-3   | 138.4E-3     | 18.12        | 1.6E-9       | 3.20             | 17.4E-9     | 32.8E-9      | 843.2E-3   | 136.2E-3     | 18.08        | -1.9E-9      |
| 199 | 3.21         | 14.3E-9     | 42.8E-9      | 842.8E-3   | 131.3E-3     | 17.90        | 160.0E-12    | 3.26             | 20.5E-9     | 42.8E-9      | 844.8E-3   | 128.2E-3     | 18.06        | -1.7E-9      |
| 200 | 3.25         | 12.3E-9     | 40.8E-9      | 843.2E-3   | 130.7E-3     | 17.81        | 6.1E-9       | 3.27             | 14.3E-9     | 37.6E-9      | 844.4E-3   | 128.1E-3     | 17.92        | -1.2E-9      |
| 201 | 3.21         | 17.4E-9     | 35.6E-9      | 843.6E-3   | 130.7E-3     | 17.82        | 6.2E-9       | 3.25             | 17.4E-9     | 37.6E-9      | 844.0E-3   | 128.4E-3     | 17.95        | -2.3E-9      |
| 202 | 3.20         | 12.8E-9     | 29.6E-9      | 843.6E-3   | 138.7E-3     | 18.00        | -640.0E-12   | 3.24             | 16.4E-9     | 31.6E-9      | 843.6E-3   | 135.6E-3     | 18.06        | -3.0E-9      |
| 203 | 3.15         | 15.4E-9     | 28.0E-9      | 843.2E-3   | 138.5E-3     | 18.10        | -240.0E-12   | 3.19             | 19.5E-9     | 31.6E-9      | 843.6E-3   | 135.5E-3     | 18.16        | -1.6E-9      |
| 204 | 3.24         | 14.6E-9     | 39.2E-9      | 844.0E-3   | 130.2E-3     | 17.78        | -360.0E-12   | 3.28             | 17.4E-9     | 41.2E-9      | 844.0E-3   | 128.2E-3     | 17.90        | -2.5E-9      |
| 205 | 3.18         | 16.4E-9     | 36.0E-9      | 843.2E-3   | 130.9E-3     | 17.92        | 80.0E-12     | 3.21             | 21.8E-9     | 37.6E-9      | 844.4E-3   | 129.6E-3     | 17.98        | -440.0E-12   |
| 206 | 3.22         | 16.4E-9     | 36.0E-9      | 843.2E-3   | 131.3E-3     | 17.82        | 000.0E+0     | 3.25             | 17.4E-9     | 39.2E-9      | 843.2E-3   | 129.4E-3     | 17.83        | -1.7E-9      |
| 207 | 3.15         | 14.6E-9     | 28.8E-9      | 843.6E-3   | 138.0E-3     | 18.11        | -440.0E-12   | 3.19             | 13.8E-9     | 30.8E-9      | 843.2E-3   | 135.9E-3     | 18.13        | -1.7E-9      |
| 208 | 3.25         | 16.4E-9     | 36.0E-9      | 843.6E-3   | 129.8E-3     | 17.70        | 2.8E-9       | 3.29             | 16.9E-9     | 42.0E-9      | 843.2E-3   | 128.8E-3     | 17.86        | -1.1E-9      |
| 209 | 3.26         | 10.2E-9     | 36.4E-9      | 843.6E-3   | 130.4E-3     | 17.74        | -1.1E-9      | 3.30             | 16.4E-9     | 38.4E-9      | 844.4E-3   | 128.8E-3     | 17.80        | -1.4E-9      |
| 210 | 3.15         | 16.4E-9     | 28.0E-9      | 844.0E-3   | 136.7E-3     | 18.05        | -1.6E-9      | 3.17             | 21.5E-9     | 32.4E-9      | 842.0E-3   | 135.9E-3     | 18.05        | -1.8E-9      |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 24V, 150°C**  
**Lot 6701**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 211 | 3.15         | 16.4E-9     | 26.8E-9      | 843.6E-3   | 137.4E-3     | 18.07        | -2.1E-9      | 3.19             | 20.5E-9     | 31.2E-9      | 844.0E-3   | 134.9E-3     | 18.06        | -2.0E-9      |
| 212 | 3.14         | 13.8E-9     | 33.6E-9      | 844.0E-3   | 133.5E-3     | 18.11        | -520.0E-12   | 3.18             | 17.4E-9     | 37.2E-9      | 844.4E-3   | 130.7E-3     | 18.14        | -2.2E-9      |
| 213 | 3.21         | 14.3E-9     | 45.6E-9      | 841.6E-3   | 133.2E-3     | 17.82        | -400.0E-12   | 3.27             | 16.9E-9     | 44.8E-9      | 843.6E-3   | 129.2E-3     | 17.98        | -1.3E-9      |
| 214 | 3.15         | 16.4E-9     | 30.8E-9      | 843.2E-3   | 135.8E-3     | 18.02        | -280.0E-12   | 3.19             | 18.4E-9     | 35.2E-9      | 843.2E-3   | 132.9E-3     | 18.10        | -1.9E-9      |
| 215 | 3.20         | 12.3E-9     | 31.6E-9      | 842.8E-3   | 138.1E-3     | 17.94        | 000.0E+0     | 3.22             | 18.7E-9     | 30.4E-9      | 843.2E-3   | 135.5E-3     | 17.95        | -3.1E-9      |
| 216 | 3.19         | 16.4E-9     | 39.6E-9      | 842.8E-3   | 132.1E-3     | 17.83        | -520.0E-12   | 3.24             | 19.7E-9     | 39.2E-9      | 844.0E-3   | 128.7E-3     | 17.96        | -1.7E-9      |
| 217 | 3.21         | 18.9E-9     | 37.2E-9      | 843.6E-3   | 131.2E-3     | 17.81        | -1.4E-9      | 3.25             | 20.5E-9     | 38.0E-9      | 844.0E-3   | 128.7E-3     | 17.90        | -1.6E-9      |
| 218 | 3.14         | 14.3E-9     | 33.2E-9      | 842.8E-3   | 132.8E-3     | 18.07        | 360.0E-12    | 3.18             | 15.4E-9     | 33.2E-9      | 843.2E-3   | 130.2E-3     | 18.18        | -1.5E-9      |
| 219 | 3.19         | 14.6E-9     | 36.4E-9      | 843.2E-3   | 131.5E-3     | 17.87        | -480.0E-12   | 3.23             | 22.5E-9     | 38.0E-9      | 842.4E-3   | 129.7E-3     | 17.90        | -1.9E-9      |
| 220 | 3.21         | 14.3E-9     | 31.2E-9      | 844.4E-3   | 139.4E-3     | 17.94        | 4.1E-9       | 3.25             | 16.4E-9     | 35.6E-9      | 842.8E-3   | 137.5E-3     | 17.96        | -2.3E-9      |
| 221 | 3.19         | 17.4E-9     | 38.0E-9      | 842.8E-3   | 131.4E-3     | 17.83        | -240.0E-12   | 3.23             | 27.7E-9     | 39.6E-9      | 843.6E-3   | 128.9E-3     | 17.95        | -1.6E-9      |
| 222 | 3.20         | 13.3E-9     | 31.6E-9      | 842.0E-3   | 139.4E-3     | 17.90        | 5.2E-9       | 3.25             | 13.3E-9     | 36.4E-9      | 843.2E-3   | 136.3E-3     | 17.98        | -2.2E-9      |
| 223 | 3.18         | 16.9E-9     | 38.8E-9      | 842.8E-3   | 132.1E-3     | 17.94        | -480.0E-12   | 3.22             | 18.9E-9     | 41.2E-9      | 842.8E-3   | 130.0E-3     | 17.96        | -1.6E-9      |
| 224 | 3.21         | 12.3E-9     | 31.6E-9      | 842.4E-3   | 140.0E-3     | 17.86        | -1.2E-9      | 3.26             | 17.4E-9     | 30.8E-9      | 843.2E-3   | 137.0E-3     | 17.92        | -2.2E-9      |
| 225 | 3.23         | 13.3E-9     | 30.8E-9      | 843.6E-3   | 143.4E-3     | 18.05        | 2.9E-9       | 3.28             | 16.4E-9     | 33.2E-9      | 844.4E-3   | 140.3E-3     | 18.12        | -840.0E-12   |
| 226 | 3.18         | 16.4E-9     | 30.8E-9      | 843.2E-3   | 136.0E-3     | 17.94        | -2.0E-9      | 3.22             | 18.7E-9     | 34.8E-9      | 842.8E-3   | 133.6E-3     | 18.01        | -2.3E-9      |
| 227 | 3.26         | 13.3E-9     | 33.6E-9      | 844.4E-3   | 140.5E-3     | 17.77        | -560.0E-12   | 3.30             | 16.4E-9     | 37.6E-9      | 844.0E-3   | 138.2E-3     | 17.78        | -1.4E-9      |
| 228 | 3.19         | 17.4E-9     | 32.4E-9      | 843.6E-3   | 135.1E-3     | 18.05        | -22.3E-9     | 3.22             | 19.7E-9     | 36.8E-9      | 843.2E-3   | 133.4E-3     | 18.12        | -2.2E-9      |
| 229 | 3.29         | 10.8E-9     | 34.0E-9      | 843.6E-3   | 139.7E-3     | 17.72        | -160.0E-12   | 3.33             | 12.8E-9     | 36.4E-9      | 844.0E-3   | 137.1E-3     | 17.77        | -1.2E-9      |
| 230 | 3.30         | 11.3E-9     | 34.4E-9      | 844.0E-3   | 139.5E-3     | 17.77        | -960.0E-12   | 3.34             | 12.3E-9     | 37.2E-9      | 843.6E-3   | 137.2E-3     | 17.81        | -1.9E-9      |
| 231 | 3.23         | 12.3E-9     | 86.8E-9      | 843.6E-3   | 142.3E-3     | 18.05        | 240.0E-12    | 3.27             | 16.4E-9     | 102.0E-9     | 844.0E-3   | 139.7E-3     | 18.16        | -1.9E-9      |
| 232 | 3.31         | 10.2E-9     | 36.0E-9      | 843.2E-3   | 140.2E-3     | 17.71        | 000.0E+0     | 3.36             | 12.8E-9     | 38.8E-9      | 842.8E-3   | 137.9E-3     | 17.80        | -1.4E-9      |
| 233 | 3.21         | 12.8E-9     | 158.8E-9     | 843.6E-3   | 141.0E-3     | 17.89        | -440.0E-12   | 3.25             | 16.4E-9     | 158.8E-9     | 844.0E-3   | 138.0E-3     | 17.96        | -1.6E-9      |
| 234 | 3.20         | 12.8E-9     | 27.6E-9      | 843.2E-3   | 140.7E-3     | 18.08        | 520.0E-12    | 3.24             | 19.5E-9     | 31.2E-9      | 843.6E-3   | 138.2E-3     | 18.14        | -2.1E-9      |
| 235 | 3.26         | 12.3E-9     | 31.2E-9      | 842.4E-3   | 135.0E-3     | 18.10        | 1.5E-9       | 3.30             | 18.9E-9     | 31.6E-9      | 844.4E-3   | 131.7E-3     | 18.22        | -1.4E-9      |
| 236 | 3.19         | 14.3E-9     | 30.8E-9      | 842.0E-3   | 137.6E-3     | 17.99        | -200.0E-12   | 3.23             | 17.7E-9     | 33.6E-9      | 842.4E-3   | 135.5E-3     | 18.04        | -1.8E-9      |
| 237 | 3.24         | 14.6E-9     | 29.6E-9      | 844.0E-3   | 133.9E-3     | 18.14        | -1.9E-9      | 3.27             | 15.4E-9     | 34.4E-9      | 843.2E-3   | 132.3E-3     | 18.17        | -1.8E-9      |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 24V, 150°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 483 | 3.40         | 17.4E-9     | 19.6E-9      | 846.0E-3   | 132.5E-3     | 17.93        | -1.1E-9      | 3.44             | 22.0E-9     | 28.4E-9      | 843.6E-3   | 131.1E-3     | 17.98        | -2.5E-9      |
| 484 | 3.43         | 21.0E-9     | 19.6E-9      | 846.4E-3   | 131.6E-3     | 17.98        | -480.0E-12   | 3.47             | 22.5E-9     | 24.8E-9      | 844.8E-3   | 129.9E-3     | 17.98        | -2.1E-9      |
| 485 | 3.42         | 18.9E-9     | 19.6E-9      | 846.4E-3   | 131.5E-3     | 17.96        | -1.1E-9      | 3.46             | 22.5E-9     | 23.2E-9      | 845.2E-3   | 129.0E-3     | 18.07        | -1.8E-9      |
| 486 | 3.46         | 17.9E-9     | 18.0E-9      | 847.6E-3   | 130.2E-3     | 17.83        | 40.0E-12     | 3.50             | 20.5E-9     | 23.6E-9      | 845.6E-3   | 128.5E-3     | 17.89        | -1.8E-9      |
| 487 | 3.45         | 17.4E-9     | 18.8E-9      | 847.6E-3   | 130.4E-3     | 17.94        | 2.3E-9       | 3.49             | 21.5E-9     | 23.6E-9      | 846.0E-3   | 128.0E-3     | 17.96        | -1.7E-9      |
| 488 | 3.50         | 14.3E-9     | 27.6E-9      | 847.6E-3   | 129.3E-3     | 18.53        | 7.8E-9       | 3.52             | 16.4E-9     | 21.6E-9      | 845.6E-3   | 127.1E-3     | 18.50        | -2.2E-9      |
| 489 | 3.48         | 15.4E-9     | 19.6E-9      | 847.6E-3   | 130.4E-3     | 18.01        | 6.0E-9       | 3.52             | 17.4E-9     | 23.2E-9      | 845.6E-3   | 128.2E-3     | 18.05        | -1.9E-9      |
| 490 | 3.14         | 33.8E-9     | 17.2E-9      | 847.6E-3   | 130.0E-3     | 20.98        | -600.0E-12   | 3.17             | 33.8E-9     | 19.6E-9      | 846.4E-3   | 127.8E-3     | 21.02        | -3.5E-9      |
| 491 | 3.26         | 25.1E-9     | 18.8E-9      | 847.6E-3   | 128.2E-3     | 19.70        | -960.0E-12   | 3.29             | 21.5E-9     | 21.2E-9      | 845.2E-3   | 126.7E-3     | 19.67        | -2.5E-9      |
| 492 | 3.46         | 16.4E-9     | 19.6E-9      | 846.8E-3   | 129.8E-3     | 18.84        | -1.2E-9      | 3.49             | 17.9E-9     | 22.8E-9      | 844.4E-3   | 128.4E-3     | 18.84        | -1.8E-9      |
| 493 | 3.47         | 16.4E-9     | 18.8E-9      | 848.0E-3   | 129.9E-3     | 18.20        | 280.0E-12    | 3.52             | 19.7E-9     | 24.0E-9      | 846.8E-3   | 127.4E-3     | 18.19        | -1.4E-9      |
| 494 | 3.49         | 14.9E-9     | 19.2E-9      | 846.8E-3   | 130.7E-3     | 18.26        | -80.0E-12    | 3.54             | 16.4E-9     | 23.6E-9      | 847.2E-3   | 127.9E-3     | 18.34        | -1.7E-9      |
| 495 | 3.43         | 19.5E-9     | 19.6E-9      | 847.2E-3   | 131.0E-3     | 18.37        | 3.2E-9       | 3.45             | 21.0E-9     | 24.0E-9      | 842.4E-3   | 131.6E-3     | 18.34        | -2.0E-9      |
| 496 | 3.45         | 17.4E-9     | 19.6E-9      | 847.2E-3   | 130.4E-3     | 18.34        | 1.9E-9       | 3.50             | 18.4E-9     | 23.2E-9      | 846.0E-3   | 128.3E-3     | 18.37        | -2.2E-9      |
| 497 | 3.42         | 19.5E-9     | 19.6E-9      | 848.0E-3   | 130.8E-3     | 18.22        | 1.6E-9       | 3.46             | 24.6E-9     | 25.2E-9      | 846.0E-3   | 128.6E-3     | 18.18        | -2.3E-9      |
| 498 | 3.42         | 18.4E-9     | 19.6E-9      | 847.2E-3   | 131.0E-3     | 18.28        | 2.3E-9       | 3.47             | 21.5E-9     | 25.2E-9      | 846.0E-3   | 128.3E-3     | 18.40        | -2.2E-9      |
| 499 | 3.11         | 29.7E-9     | 18.8E-9      | 846.4E-3   | 136.5E-3     | 20.95        | -320.0E-12   | 3.15             | 27.7E-9     | 23.6E-9      | 845.2E-3   | 133.9E-3     | 20.99        | -3.5E-9      |
| 500 | 3.13         | 26.6E-9     | 20.0E-9      | 846.4E-3   | 137.9E-3     | 20.88        | -800.0E-12   | 3.17             | 29.2E-9     | 24.4E-9      | 845.2E-3   | 134.9E-3     | 20.87        | -3.5E-9      |
| 501 | 3.18         | 21.5E-9     | 19.6E-9      | 846.4E-3   | 136.6E-3     | 19.45        | 280.0E-12    | 3.23             | 25.6E-9     | 24.4E-9      | 845.6E-3   | 133.4E-3     | 19.61        | -2.9E-9      |
| 502 | 3.08         | 25.6E-9     | 20.4E-9      | 847.2E-3   | 136.9E-3     | 20.54        | 440.0E-12    | 3.09             | 26.9E-9     | 25.2E-9      | 843.6E-3   | 135.9E-3     | 20.44        | -5.2E-9      |
| 503 | 3.38         | 15.4E-9     | 17.6E-9      | 846.4E-3   | 135.4E-3     | 18.50        | -400.0E-12   | 3.42             | 17.4E-9     | 32.8E-9      | 844.4E-3   | 133.9E-3     | 18.54        | -2.6E-9      |
| 504 | 3.32         | 18.9E-9     | 20.4E-9      | 845.2E-3   | 137.5E-3     | 18.74        | -280.0E-12   | 3.37             | 20.7E-9     | 34.0E-9      | 844.8E-3   | 133.8E-3     | 18.91        | -2.6E-9      |
| 505 | 3.37         | 16.4E-9     | 18.4E-9      | 846.8E-3   | 135.2E-3     | 18.42        | -480.0E-12   | 3.41             | 18.9E-9     | 23.6E-9      | 844.4E-3   | 133.5E-3     | 18.40        | -2.7E-9      |
| 506 | 3.37         | 16.4E-9     | 18.8E-9      | 846.0E-3   | 135.1E-3     | 18.42        | -240.0E-12   | 3.42             | 18.4E-9     | 19.6E-9      | 848.4E-3   | 132.0E-3     | 18.44        | -2.8E-9      |
| 507 | 3.38         | 16.6E-9     | 18.0E-9      | 846.8E-3   | 134.4E-3     | 18.32        | -15.5E-9     | 3.42             | 20.5E-9     | 23.2E-9      | 844.8E-3   | 132.5E-3     | 18.29        | -2.6E-9      |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 24V, 150°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 508 | 3.38         | 16.4E-9     | 18.8E-9      | 846.8E-3   | 134.6E-3     | 18.37        | -4.4E-9      | 3.40             | 18.4E-9     | 22.8E-9      | 846.0E-3   | 132.1E-3     | 18.37        | -4.2E-9      |
| 509 | 3.38         | 16.4E-9     | 20.4E-9      | 847.6E-3   | 133.3E-3     | 18.05        | 2.6E-9       | 3.42             | 20.5E-9     | 24.4E-9      | 845.6E-3   | 130.8E-3     | 18.14        | -2.6E-9      |
| 510 | 3.38         | 20.5E-9     | 18.8E-9      | 846.8E-3   | 134.1E-3     | 18.23        | -480.0E-12   | 3.43             | 19.5E-9     | 25.2E-9      | 845.6E-3   | 131.7E-3     | 18.20        | -2.8E-9      |
| 511 | 3.39         | 14.9E-9     | 18.8E-9      | 846.4E-3   | 132.9E-3     | 18.00        | -360.0E-12   | 3.43             | 19.5E-9     | 24.4E-9      | 845.2E-3   | 130.5E-3     | 18.00        | -2.4E-9      |
| 512 | 3.39         | 16.4E-9     | 18.8E-9      | 846.4E-3   | 133.7E-3     | 18.02        | -360.0E-12   | 3.43             | 20.5E-9     | 24.4E-9      | 845.6E-3   | 130.8E-3     | 18.08        | -2.6E-9      |
| 513 | 3.41         | 20.7E-9     | 18.8E-9      | 846.8E-3   | 132.4E-3     | 17.94        | -120.0E-12   | 3.44             | 19.5E-9     | 24.4E-9      | 846.4E-3   | 130.6E-3     | 17.94        | -2.2E-9      |
| 514 | 3.40         | 17.4E-9     | 18.4E-9      | 847.6E-3   | 132.9E-3     | 17.99        | -1.7E-9      | 3.43             | 20.0E-9     | 24.8E-9      | 844.8E-3   | 131.8E-3     | 18.00        | -2.5E-9      |
| 515 | 3.42         | 19.5E-9     | 18.8E-9      | 847.2E-3   | 131.6E-3     | 18.02        | 1.1E-9       | 3.45             | 18.4E-9     | 26.0E-9      | 844.8E-3   | 129.9E-3     | 18.04        | -2.6E-9      |
| 516 | 3.41         | 19.5E-9     | 18.8E-9      | 848.0E-3   | 131.4E-3     | 17.96        | -1.2E-9      | 3.45             | 18.4E-9     | 24.8E-9      | 847.6E-3   | 129.8E-3     | 17.89        | -2.2E-9      |
| 517 | 3.39         | 17.4E-9     | 121.2E-9     | 848.4E-3   | 130.6E-3     | 18.38        | -2.2E-9      | 3.43             | 24.6E-9     | 128.4E-9     | 845.6E-3   | 128.6E-3     | 18.50        | -1.6E-9      |
| 518 | 3.42         | 18.4E-9     | 19.6E-9      | 847.6E-3   | 131.1E-3     | 18.22        | -360.0E-12   | 3.46             | 19.5E-9     | 26.0E-9      | 846.0E-3   | 129.4E-3     | 18.19        | -3.1E-9      |
| 519 | 3.37         | 20.5E-9     | 17.2E-9      | 847.2E-3   | 138.8E-3     | 17.94        | -400.0E-12   | 3.41             | 21.8E-9     | 23.6E-9      | 845.6E-3   | 136.5E-3     | 17.93        | -3.0E-9      |
| 520 | 3.39         | 20.5E-9     | 16.0E-9      | 847.6E-3   | 138.7E-3     | 17.98        | -1.4E-9      | 3.43             | 20.7E-9     | 23.6E-9      | 845.2E-3   | 137.1E-3     | 17.94        | -2.4E-9      |
| 521 | 3.55         | 12.3E-9     | 21.6E-9      | 847.6E-3   | 135.9E-3     | 17.95        | -800.0E-12   | 3.59             | 16.4E-9     | 26.4E-9      | 849.2E-3   | 134.3E-3     | 17.95        | -1.6E-9      |
| 522 | 3.62         | 13.8E-9     | 24.0E-9      | 847.6E-3   | 135.6E-3     | 18.53        | -280.0E-12   | 3.66             | 14.3E-9     | 28.4E-9      | 844.8E-3   | 134.5E-3     | 18.59        | -1.4E-9      |
| 523 | 3.57         | 12.3E-9     | 22.8E-9      | 847.6E-3   | 135.7E-3     | 17.94        | -400.0E-12   | 3.61             | 14.9E-9     | 26.8E-9      | 845.6E-3   | 133.6E-3     | 18.01        | -2.0E-9      |
| 524 | 3.55         | 11.3E-9     | 23.2E-9      | 847.2E-3   | 135.9E-3     | 18.07        | -640.0E-12   | 3.59             | 12.3E-9     | 28.0E-9      | 845.6E-3   | 134.1E-3     | 18.06        | -1.5E-9      |
| 525 | 3.57         | 12.3E-9     | 23.2E-9      | 848.4E-3   | 136.4E-3     | 18.14        | 1.3E-9       | 3.61             | 13.3E-9     | 30.8E-9      | 848.4E-3   | 135.2E-3     | 18.06        | -2.2E-9      |
| 526 | 3.52         | 14.6E-9     | 22.8E-9      | 847.2E-3   | 134.9E-3     | 18.11        | 120.0E-12    | 3.56             | 16.9E-9     | 28.4E-9      | 845.6E-3   | 133.3E-3     | 18.07        | -2.2E-9      |
| 527 | 3.53         | 12.8E-9     | 22.8E-9      | 847.6E-3   | 135.4E-3     | 18.05        | 1.6E-9       | 3.57             | 14.3E-9     | 30.4E-9      | 847.6E-3   | 134.5E-3     | 18.04        | -1.8E-9      |
| 528 | 3.51         | 16.4E-9     | 21.6E-9      | 847.2E-3   | 134.1E-3     | 18.14        | 160.0E-12    | 3.54             | 21.0E-9     | 29.6E-9      | 844.8E-3   | 133.2E-3     | 18.11        | -2.1E-9      |
| 529 | 3.51         | 13.3E-9     | 22.8E-9      | 847.2E-3   | 134.2E-3     | 18.08        | -680.0E-12   | 3.54             | 17.4E-9     | 30.0E-9      | 844.4E-3   | 133.1E-3     | 18.01        | -2.7E-9      |
| 530 | 3.43         | 16.4E-9     | 18.0E-9      | 846.8E-3   | 137.4E-3     | 17.76        | 1.0E-9       | 3.47             | 22.8E-9     | 22.4E-9      | 844.8E-3   | 135.4E-3     | 17.80        | -1.3E-9      |
| 531 | 3.47         | 16.4E-9     | 16.4E-9      | 847.2E-3   | 137.9E-3     | 17.70        | 920.0E-12    | 3.49             | 17.4E-9     | 22.0E-9      | 842.4E-3   | 139.1E-3     | 17.70        | -2.0E-9      |
| 532 | 3.44         | 16.4E-9     | 16.4E-9      | 846.8E-3   | 137.5E-3     | 17.74        | -1.0E-9      | 3.48             | 19.7E-9     | 21.6E-9      | 845.2E-3   | 135.1E-3     | 17.76        | -2.0E-9      |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 24V, 150°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 533 | 3.48         | 16.4E-9     | 18.0E-9      | 848.8E-3   | 139.2E-3     | 17.77        | -1.2E-9      | 3.53             | 20.5E-9     | 21.2E-9      | 846.4E-3   | 135.7E-3     | 17.84        | -2.6E-9      |
| 534 | 3.46         | 16.4E-9     | 17.2E-9      | 847.6E-3   | 137.9E-3     | 17.82        | -120.0E-12   | 3.50             | 18.4E-9     | 21.2E-9      | 845.6E-3   | 135.7E-3     | 17.81        | -2.3E-9      |
| 535 | 3.54         | 12.3E-9     | 17.2E-9      | 848.0E-3   | 140.0E-3     | 17.80        | 3.7E-9       | 3.58             | 14.9E-9     | 24.4E-9      | 846.8E-3   | 137.7E-3     | 17.81        | -1.3E-9      |
| 536 | 3.49         | 16.4E-9     | 17.2E-9      | 848.4E-3   | 139.3E-3     | 17.76        | 000.0E+0     | 3.53             | 22.5E-9     | 20.8E-9      | 846.0E-3   | 137.5E-3     | 17.81        | -2.0E-9      |
| 537 | 3.51         | 13.3E-9     | 18.0E-9      | 848.0E-3   | 139.2E-3     | 17.74        | -200.0E-12   | 3.55             | 16.4E-9     | 21.6E-9      | 846.0E-3   | 137.1E-3     | 17.78        | -1.7E-9      |
| 538 | 3.46         | 17.4E-9     | 16.8E-9      | 847.2E-3   | 139.0E-3     | 17.71        | -320.0E-12   | 3.50             | 19.5E-9     | 23.2E-9      | 845.2E-3   | 137.2E-3     | 17.76        | -2.2E-9      |
| 539 | 3.47         | 14.9E-9     | 16.8E-9      | 847.6E-3   | 139.1E-3     | 17.82        | -40.0E-12    | 3.50             | 18.4E-9     | 24.0E-9      | 845.2E-3   | 138.3E-3     | 17.80        | -2.5E-9      |
| 540 | 3.42         | 17.9E-9     | 17.6E-9      | 847.6E-3   | 138.5E-3     | 17.75        | 920.0E-12    | 3.44             | 20.5E-9     | 21.2E-9      | 844.4E-3   | 137.4E-3     | 17.72        | -3.7E-9      |
| 541 | 3.43         | 14.3E-9     | 28.4E-9      | 848.0E-3   | 138.7E-3     | 17.74        | 560.0E-12    | 3.47             | 18.4E-9     | 34.4E-9      | 845.6E-3   | 137.1E-3     | 17.77        | -2.4E-9      |
| 542 | 3.42         | 18.9E-9     | 17.6E-9      | 848.0E-3   | 135.8E-3     | 17.78        | -80.0E-12    | 3.46             | 22.0E-9     | 23.2E-9      | 844.8E-3   | 134.2E-3     | 17.80        | -2.3E-9      |
| 543 | 3.44         | 16.4E-9     | 18.0E-9      | 848.0E-3   | 137.0E-3     | 17.77        | -80.0E-12    | 3.47             | 21.0E-9     | 24.0E-9      | 845.2E-3   | 135.5E-3     | 17.75        | -2.8E-9      |
| 544 | 3.44         | 20.5E-9     | 18.0E-9      | 848.0E-3   | 133.7E-3     | 17.78        | -160.0E-12   | 3.48             | 18.9E-9     | 24.4E-9      | 844.8E-3   | 132.2E-3     | 17.78        | -2.4E-9      |
| 545 | 3.43         | 16.4E-9     | 18.0E-9      | 848.0E-3   | 134.1E-3     | 17.86        | -680.0E-12   | 3.47             | 20.5E-9     | 24.0E-9      | 845.6E-3   | 132.5E-3     | 17.77        | -2.6E-9      |
| 546 | 3.46         | 19.5E-9     | 17.6E-9      | 848.0E-3   | 132.7E-3     | 17.76        | -200.0E-12   | 3.50             | 20.5E-9     | 22.4E-9      | 845.6E-3   | 130.5E-3     | 17.80        | -1.7E-9      |
| 547 | 3.47         | 19.5E-9     | 16.4E-9      | 848.0E-3   | 133.0E-3     | 17.74        | -640.0E-12   | 3.51             | 22.8E-9     | 22.0E-9      | 845.6E-3   | 130.8E-3     | 17.76        | -2.2E-9      |
| 548 | 3.43         | 16.9E-9     | 20.0E-9      | 847.2E-3   | 129.9E-3     | 17.71        | -1.0E-9      | 3.44             | 18.7E-9     | 24.8E-9      | 844.8E-3   | 127.8E-3     | 17.68        | -2.7E-9      |
| 549 | 3.41         | 17.9E-9     | 24.8E-9      | 848.0E-3   | 130.7E-3     | 17.70        | -920.0E-12   | 3.44             | 18.9E-9     | 31.6E-9      | 844.4E-3   | 128.7E-3     | 17.70        | -2.2E-9      |
| 550 | 3.46         | 16.6E-9     | 20.4E-9      | 848.0E-3   | 128.9E-3     | 17.64        | -280.0E-12   | 3.50             | 22.5E-9     | 25.2E-9      | 845.6E-3   | 127.2E-3     | 17.68        | -2.3E-9      |
| 551 | 3.44         | 17.4E-9     | 19.6E-9      | 847.2E-3   | 130.1E-3     | 17.75        | -560.0E-12   | 3.47             | 20.5E-9     | 26.4E-9      | 844.8E-3   | 128.1E-3     | 17.74        | -2.3E-9      |
| 552 | 3.49         | 14.3E-9     | 21.2E-9      | 847.6E-3   | 129.2E-3     | 17.76        | -440.0E-12   | 3.52             | 18.4E-9     | 26.8E-9      | 848.0E-3   | 127.3E-3     | 17.71        | -1.4E-9      |
| 553 | 3.47         | 14.9E-9     | 19.6E-9      | 847.6E-3   | 129.1E-3     | 17.63        | -680.0E-12   | 3.50             | 18.4E-9     | 24.8E-9      | 844.8E-3   | 127.6E-3     | 17.62        | -2.5E-9      |
| 554 | 3.51         | 13.8E-9     | 20.0E-9      | 847.6E-3   | 128.8E-3     | 17.74        | -80.0E-12    | 3.55             | 14.3E-9     | 28.0E-9      | 844.8E-3   | 127.0E-3     | 17.80        | -1.6E-9      |
| 555 | 3.53         | 11.8E-9     | 20.4E-9      | 848.4E-3   | 128.0E-3     | 18.35        | 120.0E-12    | 3.57             | 12.8E-9     | 27.6E-9      | 847.2E-3   | 126.8E-3     | 18.30        | -1.2E-9      |
| 556 | 3.46         | 14.9E-9     | 20.0E-9      | 847.6E-3   | 129.9E-3     | 17.70        | -40.0E-12    | 3.49             | 20.5E-9     | 26.0E-9      | 844.4E-3   | 128.7E-3     | 17.70        | -1.6E-9      |
| 557 | 3.48         | 15.4E-9     | 21.2E-9      | 848.0E-3   | 130.6E-3     | 17.81        | -600.0E-12   | 3.51             | 14.9E-9     | 24.4E-9      | 847.2E-3   | 128.8E-3     | 17.80        | -1.0E-9      |
| 558 | 3.42         | 17.7E-9     | 19.6E-9      | 847.6E-3   | 130.4E-3     | 17.76        | -280.0E-12   | 3.45             | 16.4E-9     | 26.4E-9      | 845.2E-3   | 128.7E-3     | 17.72        | -1.5E-9      |
| 559 | 3.42         | 16.4E-9     | 20.4E-9      | 848.4E-3   | 130.9E-3     | 17.81        | -680.0E-12   | 3.45             | 21.0E-9     | 24.4E-9      | 844.4E-3   | 129.9E-3     | 17.75        | -2.8E-9      |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 24V, 150°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |                |              |              | 500Hr End Points |             |              |            |                |              |              |
|-----|--------------|-------------|--------------|------------|----------------|--------------|--------------|------------------|-------------|--------------|------------|----------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS(on)<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS(on)<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 801 | 3.14         | 17.4E-9     | 38.4E-9      | 842.4E-3   | 123.4E-3       | 18.42        | -7.8E-9      | 3.18             | 19.7E-9     | 37.6E-9      | 841.6E-3   | 119.4E-3       | 18.46        | -5.4E-9      |
| 802 | 3.19         | 16.4E-9     | 26.0E-9      | 846.0E-3   | 120.9E-3       | 18.54        | -8.4E-9      | 3.22             | 16.6E-9     | 27.6E-9      | 843.2E-3   | 119.0E-3       | 18.54        | -4.6E-9      |
| 803 | 3.18         | 16.9E-9     | 25.6E-9      | 845.6E-3   | 121.3E-3       | 18.64        | -3.2E-9      | 3.21             | 21.8E-9     | 26.8E-9      | 843.2E-3   | 119.2E-3       | 18.61        | -5.3E-9      |
| 804 | 3.23         | 16.4E-9     | 27.6E-9      | 846.8E-3   | 118.8E-3       | 18.54        | 4.6E-9       | 3.26             | 16.4E-9     | 30.4E-9      | 842.8E-3   | 117.8E-3       | 18.46        | -5.5E-9      |
| 805 | 3.21         | 10.8E-9     | 29.6E-9      | 846.8E-3   | 119.9E-3       | 18.49        | -6.8E-9      | 3.24             | 16.9E-9     | 38.8E-9      | 844.0E-3   | 118.6E-3       | 18.40        | -5.3E-9      |
| 806 | 3.20         | 14.3E-9     | 26.8E-9      | 846.0E-3   | 120.1E-3       | 18.56        | -5.6E-9      | 3.24             | 18.7E-9     | 26.8E-9      | 843.2E-3   | 117.8E-3       | 18.50        | -5.2E-9      |
| 807 | 3.18         | 14.9E-9     | 25.6E-9      | 846.8E-3   | 125.2E-3       | 18.64        | -3.0E-9      | 3.20             | 18.7E-9     | 29.2E-9      | 842.0E-3   | 124.3E-3       | 18.58        | -5.2E-9      |
| 808 | 3.15         | 17.9E-9     | 33.6E-9      | 844.0E-3   | 123.1E-3       | 18.65        | -8.4E-9      | 3.19             | 17.7E-9     | 35.2E-9      | 843.2E-3   | 119.9E-3       | 18.61        | -5.8E-9      |
| 809 | 3.19         | 15.4E-9     | 25.2E-9      | 844.8E-3   | 126.9E-3       | 18.46        | -7.3E-9      | 3.24             | 16.4E-9     | 26.0E-9      | 843.6E-3   | 124.1E-3       | 18.47        | -5.3E-9      |
| 810 | 3.18         | 14.9E-9     | 38.4E-9      | 846.0E-3   | 124.8E-3       | 18.65        | -6.2E-9      | 3.21             | 16.9E-9     | 67.6E-9      | 843.2E-3   | 123.1E-3       | 18.56        | -6.7E-9      |
| 811 | 3.29         | 10.2E-9     | 22.8E-9      | 846.4E-3   | 124.1E-3       | 18.38        | -6.0E-9      | 3.33             | 12.8E-9     | 24.8E-9      | 844.0E-3   | 122.6E-3       | 18.36        | -4.6E-9      |
| 812 | 3.18         | 14.3E-9     | 23.6E-9      | 845.2E-3   | 125.8E-3       | 18.53        | -7.2E-9      | 3.19             | 18.4E-9     | 26.8E-9      | 842.0E-3   | 124.2E-3       | 18.46        | -6.9E-9      |
| 813 | 3.27         | 10.2E-9     | 21.2E-9      | 846.4E-3   | 124.7E-3       | 18.32        | -6.2E-9      | 3.29             | 14.9E-9     | 23.6E-9      | 843.6E-3   | 123.1E-3       | 18.25        | -5.5E-9      |
| 814 | 3.27         | 9.7E-9      | 21.2E-9      | 846.0E-3   | 124.8E-3       | 18.37        | -2.0E-9      | 3.31             | 14.3E-9     | 22.8E-9      | 844.0E-3   | 123.3E-3       | 18.37        | -4.6E-9      |
| 815 | 3.20         | 15.4E-9     | 23.6E-9      | 846.4E-3   | 124.8E-3       | 18.50        | 720.0E-12    | 3.24             | 20.5E-9     | 26.0E-9      | 844.4E-3   | 122.4E-3       | 18.56        | -5.4E-9      |
| 816 | 3.21         | 14.3E-9     | 23.6E-9      | 846.8E-3   | 125.1E-3       | 18.43        | -6.7E-9      | 3.24             | 19.7E-9     | 26.0E-9      | 844.4E-3   | 123.2E-3       | 18.46        | -5.8E-9      |
| 817 | 3.19         | 11.3E-9     | 36.8E-9      | 846.0E-3   | 123.4E-3       | 18.26        | -6.3E-9      | 3.23             | 16.4E-9     | 38.0E-9      | 843.2E-3   | 120.9E-3       | 18.26        | -4.8E-9      |
| 818 | 3.20         | 16.4E-9     | 24.4E-9      | 846.0E-3   | 125.1E-3       | 18.50        | -6.6E-9      | 3.24             | 19.5E-9     | 22.8E-9      | 843.6E-3   | 122.7E-3       | 18.54        | -4.9E-9      |
| 819 | 3.20         | 10.2E-9     | 38.8E-9      | 846.8E-3   | 123.5E-3       | 18.01        | -5.6E-9      | 3.21             | 13.3E-9     | 41.2E-9      | 844.4E-3   | 121.3E-3       | 17.98        | -5.6E-9      |
| 820 | 3.22         | 8.5E-9      | 42.8E-9      | 847.2E-3   | 122.7E-3       | 18.07        | -3.0E-9      | 3.26             | 10.2E-9     | 44.8E-9      | 845.2E-3   | 120.1E-3       | 18.11        | -4.2E-9      |
| 821 | 3.24         | 12.3E-9     | 50.0E-9      | 846.4E-3   | 122.6E-3       | 18.13        | -6.0E-9      | 3.28             | 13.8E-9     | 56.4E-9      | 843.6E-3   | 121.0E-3       | 18.13        | -4.5E-9      |
| 822 | 3.25         | 12.3E-9     | 52.8E-9      | 846.8E-3   | 122.2E-3       | 18.11        | -5.4E-9      | 3.29             | 12.3E-9     | 54.0E-9      | 844.8E-3   | 119.8E-3       | 18.11        | -4.5E-9      |
| 823 | 3.17         | 14.3E-9     | 36.4E-9      | 846.4E-3   | 123.2E-3       | 18.10        | -6.2E-9      | 3.21             | 17.4E-9     | 37.2E-9      | 844.4E-3   | 120.2E-3       | 18.20        | -4.7E-9      |
| 824 | 3.16         | 16.4E-9     | 44.4E-9      | 846.4E-3   | 125.0E-3       | 18.17        | -7.3E-9      | 3.18             | 16.4E-9     | 46.0E-9      | 845.6E-3   | 121.8E-3       | 18.16        | -5.8E-9      |
| 825 | 3.18         | 14.9E-9     | 33.6E-9      | 846.4E-3   | 124.7E-3       | 18.13        | -6.8E-9      | 3.22             | 16.4E-9     | 38.0E-9      | 844.4E-3   | 122.5E-3       | 18.20        | -4.8E-9      |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 24V, 150°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 826 | 3.19         | 14.3E-9     | 35.6E-9      | 846.0E-3   | 125.3E-3     | 18.13        | -3.4E-9      | 3.24             | 14.3E-9     | 38.4E-9      | 844.8E-3   | 122.3E-3     | 18.24        | -4.7E-9      |
| 827 | 3.17         | 14.9E-9     | 152.0E-9     | 847.6E-3   | 119.0E-3     | 18.48        | -6.4E-9      | 3.20             | 16.4E-9     | 154.0E-9     | 843.2E-3   | 117.1E-3     | 18.54        | -5.1E-9      |
| 828 | 3.20         | 13.8E-9     | 36.8E-9      | 846.0E-3   | 126.3E-3     | 18.18        | -7.0E-9      | 3.21             | 14.3E-9     | 38.8E-9      | 844.4E-3   | 123.9E-3     | 18.13        | -5.4E-9      |
| 829 | 3.20         | 11.5E-9     | 29.2E-9      | 845.6E-3   | 118.1E-3     | 18.54        | -6.8E-9      | 3.24             | 14.3E-9     | 31.6E-9      | 844.0E-3   | 115.8E-3     | 18.54        | -4.5E-9      |
| 830 | 3.18         | 13.8E-9     | 41.2E-9      | 846.8E-3   | 127.8E-3     | 18.23        | -6.0E-9      | 3.23             | 15.4E-9     | 42.0E-9      | 846.0E-3   | 124.3E-3     | 18.31        | -5.1E-9      |
| 831 | 3.24         | 14.3E-9     | 27.6E-9      | 846.0E-3   | 118.6E-3     | 18.47        | -7.2E-9      | 3.28             | 16.4E-9     | 27.6E-9      | 845.2E-3   | 115.3E-3     | 18.49        | -4.8E-9      |
| 832 | 3.20         | 16.4E-9     | 24.8E-9      | 846.4E-3   | 119.1E-3     | 18.43        | -6.7E-9      | 3.24             | 20.0E-9     | 29.2E-9      | 844.4E-3   | 116.9E-3     | 18.52        | -4.7E-9      |
| 833 | 3.18         | 15.4E-9     | 28.4E-9      | 846.0E-3   | 120.1E-3     | 18.48        | -7.7E-9      | 3.23             | 16.4E-9     | 29.2E-9      | 844.4E-3   | 116.8E-3     | 18.54        | -4.6E-9      |
| 834 | 3.14         | 14.9E-9     | 59.6E-9      | 846.0E-3   | 119.7E-3     | 18.49        | -7.8E-9      | 3.17             | 18.9E-9     | 64.4E-9      | 844.0E-3   | 117.9E-3     | 18.48        | -3.6E-9      |
| 835 | 3.16         | 16.4E-9     | 29.2E-9      | 845.6E-3   | 121.0E-3     | 18.60        | -7.4E-9      | 3.20             | 20.5E-9     | 29.2E-9      | 843.2E-3   | 119.3E-3     | 18.56        | -5.5E-9      |
| 836 | 3.17         | 17.9E-9     | 26.4E-9      | 846.0E-3   | 121.3E-3     | 18.59        | -8.8E-9      | 3.21             | 20.5E-9     | 27.6E-9      | 847.6E-3   | 119.2E-3     | 18.54        | -6.3E-9      |
| 837 | 3.15         | 13.8E-9     | 26.8E-9      | 844.4E-3   | 124.8E-3     | 18.73        | -6.3E-9      | 3.19             | 14.9E-9     | 26.4E-9      | 843.6E-3   | 121.1E-3     | 18.79        | -5.4E-9      |
| 838 | 3.16         | 12.8E-9     | 70.8E-9      | 845.6E-3   | 124.1E-3     | 18.76        | -7.0E-9      | 3.20             | 18.4E-9     | 68.8E-9      | 849.6E-3   | 121.5E-3     | 18.71        | -5.7E-9      |
| 839 | 3.15         | 14.9E-9     | 25.2E-9      | 846.4E-3   | 121.6E-3     | 18.71        | -5.5E-9      | 3.19             | 16.4E-9     | 27.6E-9      | 850.0E-3   | 119.1E-3     | 18.62        | -6.0E-9      |
| 840 | 3.17         | 13.8E-9     | 26.8E-9      | 846.8E-3   | 120.6E-3     | 18.64        | -5.2E-9      | 3.20             | 17.7E-9     | 29.6E-9      | 843.6E-3   | 118.8E-3     | 18.60        | -6.3E-9      |
| 841 | 3.16         | 15.4E-9     | 28.4E-9      | 846.0E-3   | 119.9E-3     | 18.54        | -6.7E-9      | 3.20             | 16.4E-9     | 30.4E-9      | 852.8E-3   | 118.3E-3     | 18.44        | -5.9E-9      |
| 842 | 3.18         | 14.9E-9     | 21.6E-9      | 846.8E-3   | 127.0E-3     | 18.55        | -3.5E-9      | 3.22             | 19.5E-9     | 23.6E-9      | 848.4E-3   | 125.3E-3     | 18.54        | -4.9E-9      |
| 843 | 3.13         | 16.4E-9     | 27.6E-9      | 846.4E-3   | 127.7E-3     | 18.64        | -7.4E-9      | 3.17             | 18.9E-9     | 27.6E-9      | 845.2E-3   | 125.2E-3     | 18.67        | -5.7E-9      |
| 844 | 3.12         | 16.6E-9     | 26.8E-9      | 846.4E-3   | 126.3E-3     | 18.66        | -3.4E-9      | 3.13             | 17.9E-9     | 29.2E-9      | 850.8E-3   | 126.2E-3     | 18.52        | -6.6E-9      |
| 845 | 3.16         | 16.4E-9     | 27.6E-9      | 847.2E-3   | 119.0E-3     | 18.55        | -4.1E-9      | 3.19             | 16.4E-9     | 31.6E-9      | 848.4E-3   | 118.5E-3     | 18.48        | -5.6E-9      |
| 846 | 3.14         | 13.3E-9     | 28.4E-9      | 846.0E-3   | 119.8E-3     | 18.71        | -6.6E-9      | 3.17             | 20.5E-9     | 30.8E-9      | 843.6E-3   | 117.9E-3     | 18.71        | -5.9E-9      |
| 847 | 3.16         | 14.3E-9     | 29.6E-9      | 846.0E-3   | 119.4E-3     | 18.50        | -7.6E-9      | 3.20             | 14.9E-9     | 30.8E-9      | 847.2E-3   | 117.4E-3     | 18.52        | -5.6E-9      |
| 848 | 3.18         | 13.6E-9     | 28.8E-9      | 846.8E-3   | 118.9E-3     | 18.46        | -7.3E-9      | 3.20             | 17.9E-9     | 30.8E-9      | 851.6E-3   | 117.7E-3     | 18.31        | -6.5E-9      |
| 849 | 3.20         | 11.3E-9     | 28.8E-9      | 846.8E-3   | 119.4E-3     | 18.40        | -7.8E-9      | 3.23             | 16.4E-9     | 32.4E-9      | 850.4E-3   | 117.9E-3     | 18.31        | -4.7E-9      |
| 850 | 3.25         | 10.2E-9     | 23.6E-9      | 846.0E-3   | 119.2E-3     | 18.28        | -4.5E-9      | 3.26             | 12.8E-9     | 30.8E-9      | 840.4E-3   | 120.7E-3     | 18.24        | -4.6E-9      |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 24V, 150°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 851 | 3.27         | 9.7E-9      | 85.6E-9      | 846.8E-3   | 119.9E-3     | 18.30        | -6.8E-9      | 3.30             | 12.8E-9     | 93.6E-9      | 842.4E-3   | 120.1E-3     | 18.19        | -3.7E-9      |
| 852 | 3.24         | 10.2E-9     | 23.2E-9      | 847.2E-3   | 119.5E-3     | 18.30        | -6.4E-9      | 3.28             | 11.3E-9     | 25.2E-9      | 843.6E-3   | 118.2E-3     | 18.29        | -5.0E-9      |
| 853 | 3.22         | 11.3E-9     | 28.0E-9      | 846.8E-3   | 120.8E-3     | 18.25        | -6.8E-9      | 3.26             | 15.4E-9     | 29.6E-9      | 845.2E-3   | 118.5E-3     | 18.29        | -5.1E-9      |
| 854 | 3.20         | 14.3E-9     | 22.8E-9      | 847.2E-3   | 119.4E-3     | 18.31        | -6.6E-9      | 3.24             | 13.8E-9     | 26.0E-9      | 844.8E-3   | 117.7E-3     | 18.37        | -5.1E-9      |
| 855 | 3.24         | 10.2E-9     | 23.6E-9      | 845.6E-3   | 117.7E-3     | 18.34        | -6.0E-9      | 3.27             | 13.8E-9     | 27.6E-9      | 842.4E-3   | 117.1E-3     | 18.34        | -5.1E-9      |
| 856 | 3.24         | 11.5E-9     | 21.6E-9      | 846.4E-3   | 119.8E-3     | 18.31        | -6.8E-9      | 3.28             | 13.8E-9     | 25.2E-9      | 846.4E-3   | 118.5E-3     | 18.28        | -4.4E-9      |
| 857 | 3.19         | 12.3E-9     | 23.6E-9      | 845.6E-3   | 119.6E-3     | 18.40        | -7.2E-9      | 3.20             | 17.4E-9     | 26.0E-9      | 843.6E-3   | 117.6E-3     | 18.38        | -7.0E-9      |
| 858 | 3.21         | 11.3E-9     | 25.2E-9      | 844.8E-3   | 119.0E-3     | 18.42        | -6.7E-9      | 3.25             | 14.9E-9     | 28.8E-9      | 843.2E-3   | 116.9E-3     | 18.42        | -4.8E-9      |
| 859 | 3.14         | 12.3E-9     | 26.0E-9      | 846.8E-3   | 121.1E-3     | 18.60        | -7.7E-9      | 3.17             | 13.6E-9     | 30.0E-9      | 843.6E-3   | 119.7E-3     | 18.54        | -6.0E-9      |
| 860 | 3.22         | 15.4E-9     | 21.2E-9      | 846.0E-3   | 117.8E-3     | 18.42        | -4.0E-9      | 3.25             | 16.4E-9     | 26.0E-9      | 842.8E-3   | 116.8E-3     | 18.37        | -5.4E-9      |
| 861 | 3.12         | 16.4E-9     | 25.2E-9      | 844.0E-3   | 121.7E-3     | 18.68        | -8.5E-9      | 3.16             | 14.9E-9     | 29.2E-9      | 842.8E-3   | 119.5E-3     | 18.68        | -6.1E-9      |
| 862 | 3.18         | 14.9E-9     | 27.2E-9      | 846.0E-3   | 119.9E-3     | 18.44        | -5.2E-9      | 3.21             | 16.9E-9     | 30.0E-9      | 842.8E-3   | 118.8E-3     | 18.46        | -5.5E-9      |
| 863 | 3.17         | 13.3E-9     | 23.2E-9      | 847.2E-3   | 128.2E-3     | 18.58        | -8.2E-9      | 3.20             | 14.3E-9     | 26.0E-9      | 843.2E-3   | 126.7E-3     | 18.59        | -6.1E-9      |
| 864 | 3.18         | 9.5E-9      | 22.0E-9      | 846.8E-3   | 128.8E-3     | 18.56        | -6.6E-9      | 3.20             | 14.9E-9     | 24.4E-9      | 846.0E-3   | 126.8E-3     | 18.52        | -7.3E-9      |
| 865 | 3.21         | 9.7E-9      | 18.0E-9      | 846.8E-3   | 129.3E-3     | 18.48        | -6.3E-9      | 3.24             | 15.4E-9     | 26.8E-9      | 844.4E-3   | 127.0E-3     | 18.49        | -6.0E-9      |
| 866 | 3.27         | 10.2E-9     | 20.4E-9      | 846.8E-3   | 126.4E-3     | 18.34        | -5.2E-9      | 3.32             | 13.6E-9     | 22.4E-9      | 855.2E-3   | 124.7E-3     | 18.18        | -4.8E-9      |
| 867 | 3.23         | 11.3E-9     | 18.4E-9      | 847.6E-3   | 127.2E-3     | 18.37        | 1.2E-9       | 3.27             | 15.4E-9     | 22.0E-9      | 848.8E-3   | 126.2E-3     | 18.30        | -5.3E-9      |
| 868 | 3.31         | 10.2E-9     | 20.8E-9      | 846.8E-3   | 124.3E-3     | 18.25        | 3.0E-9       | 3.36             | 9.2E-9      | 22.4E-9      | 846.8E-3   | 122.3E-3     | 18.24        | -5.4E-9      |
| 869 | 3.17         | 15.4E-9     | 25.6E-9      | 847.2E-3   | 121.9E-3     | 18.84        | -7.6E-9      | 3.20             | 18.4E-9     | 28.8E-9      | 850.0E-3   | 120.1E-3     | 18.76        | -5.8E-9      |
| 870 | 3.26         | 10.8E-9     | 20.4E-9      | 846.4E-3   | 126.8E-3     | 18.36        | -5.5E-9      | 3.31             | 12.3E-9     | 22.4E-9      | 850.8E-3   | 124.4E-3     | 18.30        | -4.8E-9      |
| 871 | 3.16         | 12.8E-9     | 24.4E-9      | 847.6E-3   | 121.0E-3     | 18.56        | -6.9E-9      | 3.19             | 16.9E-9     | 30.8E-9      | 850.4E-3   | 121.0E-3     | 18.46        | -6.4E-9      |
| 872 | 3.18         | 14.9E-9     | 24.4E-9      | 846.8E-3   | 122.7E-3     | 18.80        | -3.4E-9      | 3.21             | 16.6E-9     | 29.2E-9      | 850.4E-3   | 120.6E-3     | 18.80        | -6.7E-9      |
| 873 | 3.22         | 13.3E-9     | 27.6E-9      | 846.4E-3   | 121.2E-3     | 18.37        | -7.1E-9      | 3.26             | 16.4E-9     | 28.4E-9      | 848.0E-3   | 118.3E-3     | 18.30        | -4.8E-9      |
| 874 | 3.15         | 11.5E-9     | 26.0E-9      | 847.2E-3   | 121.4E-3     | 18.70        | -6.9E-9      | 3.18             | 14.3E-9     | 26.4E-9      | 852.8E-3   | 119.6E-3     | 18.59        | -6.6E-9      |
| 875 | 3.19         | 12.8E-9     | 26.8E-9      | 846.4E-3   | 122.0E-3     | 18.44        | -7.3E-9      | 3.23             | 17.9E-9     | 28.8E-9      | 845.2E-3   | 119.5E-3     | 18.46        | -4.2E-9      |
| 876 | 3.20         | 13.8E-9     | 26.8E-9      | 846.4E-3   | 121.8E-3     | 18.36        | -7.0E-9      | 3.25             | 14.3E-9     | 28.0E-9      | 846.8E-3   | 118.7E-3     | 18.40        | -5.6E-9      |
| 877 | 3.18         | 15.4E-9     | 26.8E-9      | 846.4E-3   | 122.2E-3     | 18.55        | -8.0E-9      | 3.21             | 16.4E-9     | 29.2E-9      | 843.6E-3   | 120.2E-3     | 18.56        | -6.1E-9      |



# ***Steady State Gate Bias***

***HTGB (Steady State -ve Gate Bias)***

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 1000hrs, VGS= -24V, 150°C**  
**Lot 6701**

| SN   | Initials     |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1000 | 3.22         | 16.7E-9     | 33.0E-9      | 851.9E-3   | 137.8E-3     | 18.34        | 231.7E-12    |
| 1001 | 3.20         | 14.7E-9     | 37.0E-9      | 855.6E-3   | 134.5E-3     | 18.31        | -833.3E-12   |
| 1002 | 3.21         | 17.4E-9     | 31.3E-9      | 851.9E-3   | 137.0E-3     | 18.37        | -671.9E-12   |
| 1003 | 3.22         | 12.4E-9     | 44.8E-9      | 852.7E-3   | 133.0E-3     | 18.30        | -1.8E-9      |
| 1004 | 3.21         | 15.7E-9     | 36.2E-9      | 853.8E-3   | 133.3E-3     | 18.28        | -49.6E-12    |
| 1005 | 3.26         | 12.4E-9     | 49.7E-9      | 856.5E-3   | 131.8E-3     | 18.29        | -643.8E-12   |
| 1006 | 3.24         | 14.3E-9     | 44.1E-9      | 854.0E-3   | 132.1E-3     | 18.22        | -1.3E-9      |
| 1007 | 3.25         | 14.7E-9     | 37.4E-9      | 855.6E-3   | 132.5E-3     | 18.15        | -41.2E-12    |
| 1008 | 3.32         | 10.4E-9     | 40.7E-9      | 853.5E-3   | 131.1E-3     | 18.10        | 1.4E-9       |
| 1009 | 3.27         | 11.2E-9     | 37.6E-9      | 852.1E-3   | 131.9E-3     | 18.10        | 000.0E+0     |
| 1010 | 3.29         | 12.4E-9     | 67.0E-9      | 856.0E-3   | 131.1E-3     | 18.18        | -49.9E-12    |
| 1011 | 3.20         | 16.6E-9     | 47.9E-9      | 852.6E-3   | 133.1E-3     | 18.30        | -747.8E-12   |
| 1012 | 3.20         | 19.3E-9     | 34.1E-9      | 854.7E-3   | 141.0E-3     | 18.17        | -557.6E-12   |
| 1013 | 3.21         | 15.7E-9     | 34.9E-9      | 854.0E-3   | 133.5E-3     | 18.22        | -782.6E-12   |
| 1014 | 3.20         | 18.6E-9     | 38.6E-9      | 854.9E-3   | 140.4E-3     | 18.28        | -698.5E-12   |
| 1015 | 3.31         | 9.2E-9      | 39.8E-9      | 854.3E-3   | 132.0E-3     | 17.99        | -1.2E-9      |
| 1016 | 3.25         | 11.4E-9     | 35.8E-9      | 855.3E-3   | 142.7E-3     | 18.27        | 1.2E-9       |
| 1017 | 3.19         | 16.1E-9     | 31.7E-9      | 853.9E-3   | 140.2E-3     | 18.20        | 1.6E-9       |
| 1018 | 3.21         | 18.7E-9     | 30.6E-9      | 854.9E-3   | 139.9E-3     | 18.30        | 382.4E-12    |
| 1019 | 3.24         | 17.6E-9     | 38.4E-9      | 854.2E-3   | 141.3E-3     | 18.24        | -702.6E-12   |
| 1020 | 3.19         | 18.8E-9     | 38.0E-9      | 852.0E-3   | 135.9E-3     | 18.30        | -83.1E-12    |
| 1021 | 3.29         | 12.9E-9     | 36.0E-9      | 855.0E-3   | 141.5E-3     | 18.26        | -89.2E-12    |
| 1022 | 3.26         | 9.0E-9      | 32.4E-9      | 852.5E-3   | 142.1E-3     | 18.21        | 2.5E-9       |
| 1023 | 3.22         | 17.6E-9     | 32.5E-9      | 855.8E-3   | 140.2E-3     | 18.23        | -1.1E-9      |
| 1024 | 3.28         | 12.8E-9     | 41.9E-9      | 853.1E-3   | 142.4E-3     | 18.20        | 2.4E-9       |
| 1025 | 3.31         | 9.9E-9      | 30.4E-9      | 855.4E-3   | 141.5E-3     | 18.14        | -552.2E-12   |

| 1000Hr End Points |             |              |            |              |              |              |
|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
| VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.23              | 18.1E-9     | 40.2E-9      | 853.7E-3   | 138.5E-3     | 18.42        | 253.7E-12    |
| 3.22              | 15.3E-9     | 38.2E-9      | 859.8E-3   | 134.7E-3     | 18.42        | -994.9E-12   |
| 3.22              | 20.1E-9     | 35.9E-9      | 855.2E-3   | 137.6E-3     | 18.47        | -769.6E-12   |
| 3.23              | 15.4E-9     | 52.1E-9      | 854.3E-3   | 133.4E-3     | 18.36        | -2.3E-9      |
| 3.22              | 17.1E-9     | 42.0E-9      | 855.8E-3   | 133.8E-3     | 18.33        | -57.5E-12    |
| 3.27              | 13.1E-9     | 61.2E-9      | 859.8E-3   | 132.0E-3     | 18.37        | -751.8E-12   |
| 3.25              | 16.4E-9     | 55.1E-9      | 858.7E-3   | 132.6E-3     | 18.30        | -1.4E-9      |
| 3.27              | 17.9E-9     | 42.5E-9      | 857.5E-3   | 132.9E-3     | 18.20        | -47.4E-12    |
| 3.32              | 11.6E-9     | 42.6E-9      | 854.7E-3   | 131.5E-3     | 18.14        | 1.7E-9       |
| 3.28              | 13.8E-9     | 47.2E-9      | 855.8E-3   | 132.2E-3     | 18.15        | 000.0E+0     |
| 3.30              | 12.8E-9     | 83.3E-9      | 857.0E-3   | 131.7E-3     | 18.29        | -58.8E-12    |
| 3.21              | 17.5E-9     | 49.6E-9      | 855.2E-3   | 133.7E-3     | 18.33        | -805.5E-12   |
| 3.21              | 23.3E-9     | 42.6E-9      | 857.7E-3   | 141.5E-3     | 18.27        | -626.2E-12   |
| 3.22              | 16.2E-9     | 41.2E-9      | 856.0E-3   | 134.1E-3     | 18.27        | -893.9E-12   |
| 3.21              | 21.8E-9     | 41.1E-9      | 857.2E-3   | 141.0E-3     | 18.31        | -710.3E-12   |
| 3.32              | 10.4E-9     | 46.2E-9      | 857.7E-3   | 132.6E-3     | 18.06        | -1.2E-9      |
| 3.27              | 12.1E-9     | 44.9E-9      | 857.9E-3   | 143.2E-3     | 18.31        | 1.2E-9       |
| 3.20              | 19.0E-9     | 39.7E-9      | 858.5E-3   | 140.5E-3     | 18.27        | 1.7E-9       |
| 3.22              | 23.5E-9     | 37.1E-9      | 858.9E-3   | 140.5E-3     | 18.33        | 414.7E-12    |
| 3.24              | 21.8E-9     | 41.7E-9      | 856.9E-3   | 141.6E-3     | 18.27        | -816.2E-12   |
| 3.20              | 20.4E-9     | 40.8E-9      | 855.5E-3   | 136.3E-3     | 18.37        | -93.1E-12    |
| 3.31              | 14.3E-9     | 45.2E-9      | 858.0E-3   | 142.1E-3     | 18.36        | -112.0E-12   |
| 3.27              | 9.1E-9      | 37.2E-9      | 854.6E-3   | 142.7E-3     | 18.26        | 3.0E-9       |
| 3.23              | 19.9E-9     | 33.5E-9      | 858.9E-3   | 141.0E-3     | 18.27        | -1.1E-9      |
| 3.30              | 15.2E-9     | 47.7E-9      | 853.9E-3   | 142.6E-3     | 18.30        | 2.5E-9       |
| 3.32              | 11.4E-9     | 36.0E-9      | 859.0E-3   | 141.7E-3     | 18.23        | -595.6E-12   |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 1000hrs, VGS= -24V, 150°C**  
**Lot 6701**

| SN   | Initials     |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1026 | 3.29         | 11.2E-9     | 40.5E-9      | 855.8E-3   | 142.7E-3     | 18.24        | 10.4E-9      |
| 1027 | 3.28         | 12.1E-9     | 33.5E-9      | 855.4E-3   | 142.3E-3     | 18.21        | 683.6E-12    |
| 1028 | 3.30         | 10.8E-9     | 37.4E-9      | 852.8E-3   | 142.2E-3     | 18.14        | 971.2E-12    |
| 1029 | 3.26         | 16.2E-9     | 30.5E-9      | 855.1E-3   | 141.2E-3     | 18.24        | -934.9E-12   |
| 1030 | 3.26         | 13.2E-9     | 32.9E-9      | 855.7E-3   | 142.9E-3     | 18.30        | 177.4E-12    |
| 1031 | 3.25         | 12.9E-9     | 34.7E-9      | 854.4E-3   | 140.7E-3     | 18.22        | -1.2E-9      |
| 1032 | 3.24         | 14.4E-9     | 30.2E-9      | 854.1E-3   | 142.5E-3     | 18.17        | 241.1E-12    |
| 1033 | 3.27         | 11.7E-9     | 34.6E-9      | 856.0E-3   | 142.8E-3     | 18.16        | 902.7E-12    |
| 1034 | 3.24         | 19.3E-9     | 45.9E-9      | 855.5E-3   | 133.2E-3     | 18.09        | -185.1E-12   |
| 1035 | 3.26         | 13.1E-9     | 36.1E-9      | 856.0E-3   | 141.5E-3     | 18.20        | 7.6E-9       |
| 1036 | 3.20         | 17.7E-9     | 42.4E-9      | 854.6E-3   | 133.1E-3     | 18.16        | 170.5E-12    |
| 1037 | 3.21         | 17.6E-9     | 34.6E-9      | 855.3E-3   | 140.2E-3     | 18.32        | 1.9E-9       |
| 1038 | 3.26         | 17.5E-9     | 45.7E-9      | 852.2E-3   | 132.9E-3     | 18.08        | 188.9E-12    |
| 1039 | 3.29         | 14.6E-9     | 50.8E-9      | 852.6E-3   | 132.0E-3     | 17.99        | 7.1E-9       |
| 1040 | 3.24         | 18.1E-9     | 39.2E-9      | 855.6E-3   | 132.1E-3     | 18.02        | 6.4E-9       |
| 1041 | 3.23         | 15.1E-9     | 32.8E-9      | 853.7E-3   | 140.7E-3     | 18.26        | -729.6E-12   |
| 1042 | 3.19         | 18.2E-9     | 32.0E-9      | 854.1E-3   | 140.0E-3     | 18.30        | -290.5E-12   |
| 1043 | 3.28         | 16.2E-9     | 40.8E-9      | 854.3E-3   | 132.1E-3     | 17.98        | -374.5E-12   |
| 1044 | 3.22         | 19.5E-9     | 38.8E-9      | 855.2E-3   | 132.6E-3     | 18.10        | 93.4E-12     |
| 1045 | 3.26         | 20.2E-9     | 37.0E-9      | 855.1E-3   | 132.9E-3     | 18.06        | 000.0E+0     |
| 1046 | 3.19         | 16.8E-9     | 33.6E-9      | 854.1E-3   | 139.7E-3     | 18.33        | -501.7E-12   |
| 1047 | 3.29         | 18.8E-9     | 37.6E-9      | 853.8E-3   | 131.2E-3     | 17.96        | 3.1E-9       |
| 1048 | 3.30         | 12.8E-9     | 43.3E-9      | 853.5E-3   | 132.3E-3     | 17.96        | -1.3E-9      |
| 1049 | 3.19         | 17.2E-9     | 32.8E-9      | 853.6E-3   | 138.6E-3     | 18.30        | -1.8E-9      |
| 1050 | 3.19         | 17.4E-9     | 27.1E-9      | 853.9E-3   | 139.2E-3     | 18.28        | -2.5E-9      |
| 1051 | 3.18         | 15.1E-9     | 35.7E-9      | 855.8E-3   | 135.3E-3     | 18.32        | -623.3E-12   |

| 1000Hr End Points |             |              |            |              |              |              |
|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
| VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.30              | 13.8E-9     | 46.8E-9      | 860.5E-3   | 143.3E-3     | 18.29        | 12.3E-9      |
| 3.28              | 14.3E-9     | 41.2E-9      | 856.3E-3   | 142.8E-3     | 18.25        | 858.1E-12    |
| 3.31              | 11.7E-9     | 38.0E-9      | 854.3E-3   | 143.0E-3     | 18.20        | 1.1E-9       |
| 3.27              | 19.9E-9     | 34.6E-9      | 859.9E-3   | 141.5E-3     | 18.31        | -989.4E-12   |
| 3.26              | 16.4E-9     | 39.4E-9      | 858.8E-3   | 143.3E-3     | 18.41        | 222.5E-12    |
| 3.26              | 15.9E-9     | 38.3E-9      | 859.2E-3   | 141.1E-3     | 18.25        | -1.4E-9      |
| 3.26              | 15.3E-9     | 36.6E-9      | 857.3E-3   | 143.0E-3     | 18.21        | 284.0E-12    |
| 3.27              | 13.4E-9     | 43.6E-9      | 858.7E-3   | 143.0E-3     | 18.19        | 954.1E-12    |
| 3.26              | 21.6E-9     | 52.7E-9      | 857.4E-3   | 133.4E-3     | 18.16        | -189.7E-12   |
| 3.27              | 16.5E-9     | 37.1E-9      | 860.9E-3   | 141.9E-3     | 18.29        | 8.4E-9       |
| 3.22              | 18.6E-9     | 43.5E-9      | 857.6E-3   | 133.6E-3     | 18.22        | 201.2E-12    |
| 3.22              | 21.5E-9     | 37.8E-9      | 857.5E-3   | 141.0E-3     | 18.41        | 1.9E-9       |
| 3.27              | 18.7E-9     | 50.5E-9      | 855.9E-3   | 133.6E-3     | 18.19        | 204.7E-12    |
| 3.30              | 15.7E-9     | 55.5E-9      | 857.0E-3   | 132.3E-3     | 18.03        | 7.7E-9       |
| 3.25              | 22.6E-9     | 45.1E-9      | 856.6E-3   | 132.3E-3     | 18.08        | 7.7E-9       |
| 3.24              | 16.7E-9     | 37.5E-9      | 854.9E-3   | 141.2E-3     | 18.30        | -880.3E-12   |
| 3.20              | 19.0E-9     | 34.8E-9      | 857.5E-3   | 140.6E-3     | 18.35        | -336.4E-12   |
| 3.29              | 18.8E-9     | 51.0E-9      | 856.3E-3   | 132.8E-3     | 18.06        | -415.1E-12   |
| 3.24              | 20.3E-9     | 44.9E-9      | 857.2E-3   | 133.0E-3     | 18.20        | 110.2E-12    |
| 3.28              | 24.3E-9     | 40.9E-9      | 858.2E-3   | 133.7E-3     | 18.16        | 000.0E+0     |
| 3.20              | 18.4E-9     | 34.4E-9      | 858.7E-3   | 139.9E-3     | 18.40        | -621.2E-12   |
| 3.30              | 19.3E-9     | 44.0E-9      | 856.8E-3   | 131.9E-3     | 18.00        | 3.9E-9       |
| 3.31              | 15.7E-9     | 49.3E-9      | 858.0E-3   | 132.5E-3     | 18.05        | -1.5E-9      |
| 3.20              | 20.7E-9     | 38.0E-9      | 858.0E-3   | 139.1E-3     | 18.39        | -2.2E-9      |
| 3.20              | 18.8E-9     | 30.8E-9      | 858.4E-3   | 139.7E-3     | 18.33        | -3.0E-9      |
| 3.18              | 15.9E-9     | 43.2E-9      | 857.3E-3   | 135.7E-3     | 18.40        | -765.8E-12   |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 1000hrs, VGS= -24V, 150°C**  
**Lot 6701**

| SN   | Initials     |             |              |            |              |              |              | 1000Hr End Points |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1052 | 3.25         | 14.9E-9     | 51.2E-9      | 852.8E-3   | 135.2E-3     | 18.06        | -461.3E-12   | 3.27              | 16.4E-9     | 59.4E-9      | 854.6E-3   | 135.6E-3     | 18.12        | -556.1E-12   |
| 1053 | 3.18         | 20.3E-9     | 37.7E-9      | 854.1E-3   | 137.3E-3     | 18.23        | -294.6E-12   | 3.18              | 21.3E-9     | 43.6E-9      | 855.9E-3   | 137.7E-3     | 18.32        | -319.7E-12   |
| 1054 | 3.23         | 14.4E-9     | 37.2E-9      | 854.9E-3   | 139.9E-3     | 18.18        | 000.0E+0     | 3.24              | 16.0E-9     | 43.9E-9      | 859.6E-3   | 140.1E-3     | 18.20        | 000.0E+0     |
| 1055 | 3.23         | 18.0E-9     | 44.1E-9      | 852.9E-3   | 133.8E-3     | 18.07        | -526.1E-12   | 3.23              | 22.3E-9     | 48.2E-9      | 854.1E-3   | 134.5E-3     | 18.16        | -610.0E-12   |
| 1056 | 3.25         | 21.4E-9     | 44.6E-9      | 855.4E-3   | 133.0E-3     | 18.05        | -1.6E-9      | 3.26              | 22.4E-9     | 48.6E-9      | 859.5E-3   | 133.4E-3     | 18.11        | -1.7E-9      |
| 1057 | 3.18         | 15.7E-9     | 34.8E-9      | 854.8E-3   | 134.3E-3     | 18.27        | 392.1E-12    | 3.20              | 19.5E-9     | 40.2E-9      | 859.3E-3   | 134.7E-3     | 18.30        | 408.3E-12    |
| 1058 | 3.24         | 16.2E-9     | 37.6E-9      | 852.5E-3   | 132.9E-3     | 18.09        | -488.8E-12   | 3.25              | 18.9E-9     | 45.9E-9      | 856.8E-3   | 133.3E-3     | 18.12        | -532.8E-12   |
| 1059 | 3.26         | 16.7E-9     | 33.1E-9      | 855.3E-3   | 141.3E-3     | 18.15        | 4.7E-9       | 3.26              | 17.2E-9     | 37.1E-9      | 857.7E-3   | 141.7E-3     | 18.24        | 5.1E-9       |
| 1060 | 3.23         | 20.8E-9     | 42.1E-9      | 853.4E-3   | 133.4E-3     | 18.09        | -271.5E-12   | 3.23              | 25.0E-9     | 50.2E-9      | 855.9E-3   | 133.8E-3     | 18.13        | -307.5E-12   |
| 1061 | 3.25         | 14.9E-9     | 33.2E-9      | 853.7E-3   | 141.3E-3     | 18.11        | 6.2E-9       | 3.26              | 17.9E-9     | 34.1E-9      | 856.9E-3   | 141.6E-3     | 18.21        | 7.1E-9       |
| 1062 | 3.22         | 18.3E-9     | 43.3E-9      | 853.0E-3   | 133.5E-3     | 18.18        | -563.7E-12   | 3.22              | 21.7E-9     | 46.1E-9      | 857.0E-3   | 133.9E-3     | 18.24        | -666.2E-12   |
| 1063 | 3.24         | 12.5E-9     | 35.6E-9      | 852.1E-3   | 141.7E-3     | 18.11        | -1.4E-9      | 3.26              | 13.5E-9     | 41.7E-9      | 853.2E-3   | 142.5E-3     | 18.20        | -1.6E-9      |
| 1064 | 3.27         | 15.8E-9     | 31.9E-9      | 854.0E-3   | 145.3E-3     | 18.28        | 3.4E-9       | 3.29              | 18.9E-9     | 37.3E-9      | 856.0E-3   | 146.2E-3     | 18.38        | 4.0E-9       |
| 1065 | 3.22         | 17.0E-9     | 38.4E-9      | 853.3E-3   | 137.6E-3     | 18.14        | -2.5E-9      | 3.22              | 19.3E-9     | 39.6E-9      | 857.7E-3   | 138.3E-3     | 18.19        | -2.7E-9      |
| 1066 | 3.29         | 16.4E-9     | 41.4E-9      | 854.0E-3   | 142.4E-3     | 17.96        | -679.7E-12   | 3.31              | 18.0E-9     | 43.1E-9      | 858.9E-3   | 143.2E-3     | 17.98        | -706.4E-12   |
| 1067 | 3.23         | 20.3E-9     | 37.1E-9      | 854.7E-3   | 136.9E-3     | 18.29        | -23.7E-9     | 3.23              | 21.6E-9     | 44.7E-9      | 856.8E-3   | 137.6E-3     | 18.36        | -29.7E-9     |
| 1068 | 3.32         | 10.9E-9     | 36.0E-9      | 854.9E-3   | 141.4E-3     | 17.97        | -181.6E-12   | 3.34              | 12.1E-9     | 38.4E-9      | 858.9E-3   | 142.0E-3     | 18.03        | -200.0E-12   |
| 1069 | 3.34         | 12.7E-9     | 41.8E-9      | 856.1E-3   | 141.2E-3     | 17.99        | -974.0E-12   | 3.35              | 14.6E-9     | 51.7E-9      | 858.4E-3   | 141.4E-3     | 18.02        | -1.1E-9      |
| 1070 | 3.27         | 14.6E-9     | 91.6E-9      | 854.0E-3   | 143.8E-3     | 18.24        | 290.5E-12    | 3.28              | 15.0E-9     | 99.9E-9      | 856.8E-3   | 144.5E-3     | 18.29        | 294.8E-12    |
| 1071 | 3.35         | 11.4E-9     | 40.4E-9      | 854.0E-3   | 141.9E-3     | 17.90        | 000.0E+0     | 3.35              | 13.7E-9     | 44.9E-9      | 855.5E-3   | 142.6E-3     | 17.96        | 000.0E+0     |
| 1072 | 3.25         | 15.4E-9     | 191.0E-9     | 855.9E-3   | 142.7E-3     | 18.11        | -537.4E-12   | 3.27              | 17.7E-9     | 216.5E-9     | 857.8E-3   | 143.3E-3     | 18.20        | -605.4E-12   |
| 1073 | 3.24         | 15.7E-9     | 28.4E-9      | 855.7E-3   | 142.3E-3     | 18.30        | 529.6E-12    | 3.26              | 19.3E-9     | 33.1E-9      | 858.4E-3   | 142.5E-3     | 18.33        | 666.4E-12    |
| 1074 | 3.30         | 14.3E-9     | 35.4E-9      | 852.1E-3   | 136.6E-3     | 18.29        | 1.6E-9       | 3.30              | 16.0E-9     | 44.5E-9      | 854.7E-3   | 137.1E-3     | 18.38        | 2.0E-9       |
| 1075 | 3.23         | 15.1E-9     | 34.6E-9      | 851.0E-3   | 139.0E-3     | 18.18        | -210.7E-12   | 3.24              | 17.4E-9     | 42.2E-9      | 854.9E-3   | 139.6E-3     | 18.23        | -251.0E-12   |
| 1076 | 3.28         | 17.5E-9     | 32.1E-9      | 853.0E-3   | 135.7E-3     | 18.38        | -2.1E-9      | 3.29              | 18.4E-9     | 39.6E-9      | 854.7E-3   | 136.5E-3     | 18.47        | -2.7E-9      |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 1000hrs, VGS= -24V, 150°C**  
**Lot 6608**

| SN   | Initials     |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1080 | 3.45         | 19.6E-9     | 22.3E-9      | 859.1E-3   | 134.8E-3     | 18.18        | -1.3E-9      |
| 1081 | 3.49         | 15.8E-9     | 21.1E-9      | 862.2E-3   | 133.9E-3     | 18.31        | -546.2E-12   |
| 1082 | 3.47         | 17.3E-9     | 22.1E-9      | 862.1E-3   | 133.3E-3     | 18.30        | -1.3E-9      |
| 1083 | 3.50         | 13.0E-9     | 22.5E-9      | 863.7E-3   | 132.4E-3     | 18.04        | 49.8E-12     |
| 1084 | 3.50         | 13.7E-9     | 21.8E-9      | 859.1E-3   | 132.5E-3     | 18.20        | 2.8E-9       |
| 1085 | 3.55         | 12.7E-9     | 33.7E-9      | 860.3E-3   | 131.5E-3     | 18.75        | 9.1E-9       |
| 1086 | 3.52         | 13.6E-9     | 24.3E-9      | 858.7E-3   | 132.2E-3     | 18.31        | 6.3E-9       |
| 1087 | 3.19         | 14.0E-9     | 19.7E-9      | 863.8E-3   | 132.3E-3     | 21.28        | -670.4E-12   |
| 1088 | 3.30         | 12.1E-9     | 23.4E-9      | 859.5E-3   | 130.7E-3     | 20.07        | -1.0E-9      |
| 1089 | 3.52         | 11.1E-9     | 22.2E-9      | 857.1E-3   | 131.9E-3     | 19.14        | -1.4E-9      |
| 1090 | 3.51         | 13.3E-9     | 21.0E-9      | 857.4E-3   | 132.0E-3     | 18.56        | 320.3E-12    |
| 1091 | 3.55         | 14.4E-9     | 23.9E-9      | 856.0E-3   | 132.2E-3     | 18.63        | -82.4E-12    |
| 1092 | 3.49         | 19.0E-9     | 23.3E-9      | 859.0E-3   | 132.8E-3     | 18.71        | 4.0E-9       |
| 1093 | 3.51         | 14.0E-9     | 24.2E-9      | 863.6E-3   | 132.1E-3     | 18.64        | 2.0E-9       |
| 1094 | 3.46         | 17.8E-9     | 21.5E-9      | 860.7E-3   | 132.4E-3     | 18.42        | 1.7E-9       |
| 1095 | 3.46         | 9.4E-9      | 21.3E-9      | 862.1E-3   | 132.7E-3     | 18.47        | 2.9E-9       |
| 1096 | 3.16         | 10.5E-9     | 19.8E-9      | 860.5E-3   | 137.9E-3     | 21.17        | -384.3E-12   |
| 1097 | 3.16         | 17.3E-9     | 20.6E-9      | 856.2E-3   | 140.4E-3     | 21.16        | -843.0E-12   |
| 1098 | 3.21         | 19.2E-9     | 22.2E-9      | 856.5E-3   | 139.0E-3     | 19.74        | 339.9E-12    |
| 1099 | 3.13         | 17.4E-9     | 22.2E-9      | 860.5E-3   | 138.6E-3     | 20.88        | 465.6E-12    |
| 1100 | 3.45         | 16.8E-9     | 19.0E-9      | 861.2E-3   | 138.0E-3     | 18.78        | -496.5E-12   |
| 1101 | 3.36         | 12.2E-9     | 23.7E-9      | 858.3E-3   | 139.7E-3     | 18.99        | -340.6E-12   |
| 1102 | 3.42         | 9.7E-9      | 22.3E-9      | 859.3E-3   | 137.6E-3     | 18.68        | -526.6E-12   |
| 1103 | 3.41         | 15.4E-9     | 22.9E-9      | 859.7E-3   | 137.4E-3     | 18.72        | -278.9E-12   |
| 1104 | 3.44         | 15.4E-9     | 20.8E-9      | 860.3E-3   | 136.4E-3     | 18.60        | -17.5E-9     |
| 1105 | 3.41         | 8.4E-9      | 22.8E-9      | 861.6E-3   | 136.7E-3     | 18.64        | -4.8E-9      |

| 1000Hr End Points |             |              |            |              |              |              |
|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
| VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.47              | 21.5E-9     | 25.4E-9      | 861.7E-3   | 135.2E-3     | 18.20        | -1.5E-9      |
| 3.51              | 18.9E-9     | 25.9E-9      | 863.2E-3   | 134.4E-3     | 18.38        | -621.1E-12   |
| 3.49              | 21.1E-9     | 22.5E-9      | 863.6E-3   | 133.6E-3     | 18.36        | -1.6E-9      |
| 3.52              | 14.4E-9     | 26.3E-9      | 867.0E-3   | 133.2E-3     | 18.11        | 53.3E-12     |
| 3.52              | 14.7E-9     | 23.1E-9      | 863.2E-3   | 133.1E-3     | 18.27        | 3.4E-9       |
| 3.56              | 15.2E-9     | 34.2E-9      | 862.5E-3   | 131.8E-3     | 18.83        | 10.8E-9      |
| 3.53              | 16.4E-9     | 28.6E-9      | 863.0E-3   | 132.6E-3     | 18.36        | 6.8E-9       |
| 3.21              | 14.2E-9     | 22.9E-9      | 868.5E-3   | 132.5E-3     | 21.40        | -785.0E-12   |
| 3.31              | 12.2E-9     | 25.3E-9      | 862.2E-3   | 131.2E-3     | 20.15        | -1.3E-9      |
| 3.53              | 13.1E-9     | 26.6E-9      | 861.6E-3   | 132.1E-3     | 19.16        | -1.6E-9      |
| 3.52              | 15.2E-9     | 24.6E-9      | 860.8E-3   | 132.7E-3     | 18.62        | 344.8E-12    |
| 3.57              | 17.5E-9     | 28.5E-9      | 857.8E-3   | 132.8E-3     | 18.73        | -98.5E-12    |
| 3.50              | 20.6E-9     | 26.2E-9      | 860.9E-3   | 133.4E-3     | 18.79        | 4.2E-9       |
| 3.51              | 14.6E-9     | 26.0E-9      | 868.6E-3   | 132.4E-3     | 18.70        | 2.3E-9       |
| 3.47              | 20.1E-9     | 23.9E-9      | 865.3E-3   | 132.7E-3     | 18.50        | 1.8E-9       |
| 3.47              | 11.4E-9     | 21.9E-9      | 864.0E-3   | 133.2E-3     | 18.54        | 3.4E-9       |
| 3.16              | 13.0E-9     | 23.6E-9      | 863.5E-3   | 138.7E-3     | 21.21        | -429.9E-12   |
| 3.17              | 21.3E-9     | 21.4E-9      | 861.3E-3   | 141.0E-3     | 21.19        | -959.2E-12   |
| 3.22              | 21.0E-9     | 25.3E-9      | 858.4E-3   | 139.7E-3     | 19.83        | 371.0E-12    |
| 3.14              | 21.5E-9     | 25.3E-9      | 864.4E-3   | 139.4E-3     | 20.93        | 470.4E-12    |
| 3.46              | 20.7E-9     | 22.9E-9      | 864.1E-3   | 138.2E-3     | 18.81        | -502.9E-12   |
| 3.37              | 13.5E-9     | 29.5E-9      | 861.5E-3   | 140.3E-3     | 19.06        | -417.5E-12   |
| 3.43              | 10.1E-9     | 24.7E-9      | 862.7E-3   | 138.4E-3     | 18.71        | -616.1E-12   |
| 3.43              | 15.9E-9     | 28.5E-9      | 861.0E-3   | 137.6E-3     | 18.80        | -296.8E-12   |
| 3.44              | 15.6E-9     | 24.3E-9      | 863.8E-3   | 136.7E-3     | 18.68        | -20.9E-9     |
| 3.42              | 9.6E-9      | 24.0E-9      | 865.0E-3   | 136.9E-3     | 18.73        | -5.4E-9      |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 1000hrs, VGS= -24V, 150°C**  
**Lot 6608**

| SN   | Initials     |             |              |            |              |              |              | 1000Hr End Points |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1106 | 3.44         | 9.4E-9      | 22.2E-9      | 862.9E-3   | 134.7E-3     | 18.40        | 2.7E-9       | 3.45              | 10.1E-9     | 27.7E-9      | 866.5E-3   | 135.0E-3     | 18.48        | 2.8E-9       |
| 1107 | 3.43         | 10.6E-9     | 22.1E-9      | 855.8E-3   | 135.7E-3     | 18.45        | -599.1E-12   | 3.45              | 10.8E-9     | 26.6E-9      | 858.5E-3   | 136.3E-3     | 18.55        | -731.1E-12   |
| 1108 | 3.44         | 12.8E-9     | 22.1E-9      | 857.3E-3   | 134.6E-3     | 18.25        | -408.2E-12   | 3.45              | 13.0E-9     | 26.7E-9      | 859.9E-3   | 135.0E-3     | 18.33        | -453.2E-12   |
| 1109 | 3.45         | 15.5E-9     | 20.9E-9      | 862.8E-3   | 136.1E-3     | 18.20        | -364.4E-12   | 3.47              | 19.1E-9     | 25.5E-9      | 866.3E-3   | 136.7E-3     | 18.26        | -445.9E-12   |
| 1110 | 3.47         | 12.3E-9     | 19.6E-9      | 859.5E-3   | 134.0E-3     | 18.18        | -135.4E-12   | 3.48              | 14.8E-9     | 22.6E-9      | 861.9E-3   | 134.8E-3     | 18.21        | -152.6E-12   |
| 1111 | 3.46         | 13.7E-9     | 20.4E-9      | 860.8E-3   | 134.4E-3     | 18.26        | -2.1E-9      | 3.47              | 16.6E-9     | 25.3E-9      | 865.2E-3   | 135.0E-3     | 18.30        | -2.3E-9      |
| 1112 | 3.46         | 14.7E-9     | 20.6E-9      | 859.7E-3   | 134.1E-3     | 18.37        | 1.1E-9       | 3.47              | 16.2E-9     | 24.0E-9      | 863.1E-3   | 134.3E-3     | 18.47        | 1.3E-9       |
| 1113 | 3.46         | 11.7E-9     | 19.1E-9      | 860.0E-3   | 133.4E-3     | 18.25        | -1.2E-9      | 3.47              | 14.7E-9     | 21.2E-9      | 864.2E-3   | 133.6E-3     | 18.36        | -1.2E-9      |
| 1114 | 3.44         | 18.9E-9     | 132.2E-9     | 857.9E-3   | 132.4E-3     | 18.73        | -2.7E-9      | 3.46              | 21.9E-9     | 140.0E-9     | 859.0E-3   | 133.0E-3     | 18.78        | -2.8E-9      |
| 1115 | 3.46         | 13.6E-9     | 22.9E-9      | 857.1E-3   | 133.1E-3     | 18.56        | -419.4E-12   | 3.47              | 16.0E-9     | 26.7E-9      | 858.5E-3   | 133.7E-3     | 18.63        | -430.8E-12   |
| 1116 | 3.41         | 18.7E-9     | 19.1E-9      | 856.3E-3   | 140.7E-3     | 18.28        | -448.5E-12   | 3.43              | 23.5E-9     | 24.1E-9      | 860.3E-3   | 141.5E-3     | 18.31        | -516.8E-12   |
| 1117 | 3.44         | 18.0E-9     | 16.6E-9      | 858.9E-3   | 141.0E-3     | 18.25        | -1.8E-9      | 3.46              | 20.0E-9     | 19.8E-9      | 864.0E-3   | 141.4E-3     | 18.31        | -2.2E-9      |
| 1118 | 3.60         | 16.3E-9     | 24.6E-9      | 862.2E-3   | 137.5E-3     | 18.15        | -923.0E-12   | 3.62              | 20.4E-9     | 27.8E-9      | 865.5E-3   | 137.9E-3     | 18.18        | -990.5E-12   |
| 1119 | 3.67         | 15.3E-9     | 25.5E-9      | 859.9E-3   | 138.2E-3     | 18.76        | -284.6E-12   | 3.68              | 18.5E-9     | 26.1E-9      | 863.0E-3   | 138.6E-3     | 18.86        | -303.4E-12   |
| 1120 | 3.63         | 21.7E-9     | 27.6E-9      | 864.3E-3   | 138.0E-3     | 18.12        | -409.4E-12   | 3.63              | 22.2E-9     | 28.9E-9      | 868.0E-3   | 138.3E-3     | 18.22        | -492.2E-12   |
| 1121 | 3.60         | 15.5E-9     | 28.6E-9      | 857.5E-3   | 137.5E-3     | 18.26        | -668.0E-12   | 3.62              | 18.9E-9     | 29.4E-9      | 861.4E-3   | 137.9E-3     | 18.34        | -759.7E-12   |
| 1122 | 3.63         | 18.2E-9     | 25.7E-9      | 862.9E-3   | 138.1E-3     | 18.41        | 1.5E-9       | 3.65              | 21.7E-9     | 31.3E-9      | 864.8E-3   | 138.7E-3     | 18.50        | 1.6E-9       |
| 1123 | 3.56         | 15.5E-9     | 28.7E-9      | 863.1E-3   | 136.5E-3     | 18.40        | 132.2E-12    | 3.57              | 18.1E-9     | 33.0E-9      | 865.2E-3   | 136.7E-3     | 18.47        | 145.1E-12    |
| 1124 | 3.58         | 19.1E-9     | 24.9E-9      | 859.3E-3   | 137.4E-3     | 18.31        | 2.0E-9       | 3.60              | 22.0E-9     | 28.0E-9      | 860.2E-3   | 138.0E-3     | 18.37        | 2.1E-9       |
| 1125 | 3.56         | 18.8E-9     | 25.1E-9      | 856.4E-3   | 136.7E-3     | 18.50        | 176.5E-12    | 3.56              | 19.2E-9     | 30.6E-9      | 859.8E-3   | 137.2E-3     | 18.54        | 178.4E-12    |
| 1126 | 3.57         | 15.9E-9     | 23.3E-9      | 857.4E-3   | 135.8E-3     | 18.32        | -820.4E-12   | 3.59              | 18.9E-9     | 26.5E-9      | 862.1E-3   | 136.6E-3     | 18.34        | -934.3E-12   |
| 1127 | 3.49         | 19.8E-9     | 19.1E-9      | 862.5E-3   | 139.4E-3     | 18.02        | 1.2E-9       | 3.50              | 24.1E-9     | 20.8E-9      | 865.5E-3   | 139.9E-3     | 18.09        | 1.3E-9       |
| 1128 | 3.51         | 12.5E-9     | 17.7E-9      | 857.5E-3   | 139.9E-3     | 18.01        | 1.1E-9       | 3.52              | 13.4E-9     | 18.7E-9      | 859.6E-3   | 140.5E-3     | 18.05        | 1.2E-9       |
| 1129 | 3.48         | 19.9E-9     | 16.6E-9      | 856.7E-3   | 138.9E-3     | 18.00        | -1.2E-9      | 3.49              | 24.4E-9     | 20.3E-9      | 858.3E-3   | 139.6E-3     | 18.09        | -1.5E-9      |
| 1130 | 3.54         | 20.4E-9     | 22.3E-9      | 857.7E-3   | 141.1E-3     | 18.09        | -1.3E-9      | 3.56              | 23.7E-9     | 23.0E-9      | 858.7E-3   | 141.3E-3     | 18.15        | -1.5E-9      |
| 1131 | 3.53         | 16.3E-9     | 19.5E-9      | 861.8E-3   | 139.6E-3     | 18.06        | -136.6E-12   | 3.54              | 17.1E-9     | 21.4E-9      | 862.6E-3   | 139.9E-3     | 18.10        | -163.4E-12   |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 1000hrs, VGS= -24V, 150°C**  
**Lot 6608**

| SN   | Initials     |             |              |            |              |              |              | 1000Hr End Points |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1132 | 3.59         | 15.5E-9     | 18.7E-9      | 862.0E-3   | 141.7E-3     | 18.15        | 4.1E-9       | 3.61              | 18.6E-9     | 20.1E-9      | 863.7E-3   | 141.9E-3     | 18.21        | 4.4E-9       |
| 1133 | 3.54         | 19.5E-9     | 18.3E-9      | 863.0E-3   | 141.2E-3     | 17.94        | 000.0E+0     | 3.55              | 23.5E-9     | 22.8E-9      | 867.8E-3   | 141.6E-3     | 17.96        | 000.0E+0     |
| 1134 | 3.56         | 14.2E-9     | 18.8E-9      | 857.9E-3   | 141.0E-3     | 17.96        | -238.1E-12   | 3.58              | 17.2E-9     | 20.4E-9      | 861.0E-3   | 141.8E-3     | 18.01        | -265.2E-12   |
| 1135 | 3.51         | 17.7E-9     | 17.1E-9      | 856.7E-3   | 141.1E-3     | 17.97        | -332.5E-12   | 3.52              | 19.4E-9     | 20.9E-9      | 859.3E-3   | 141.7E-3     | 18.02        | -337.5E-12   |
| 1136 | 3.51         | 20.0E-9     | 17.8E-9      | 859.6E-3   | 141.0E-3     | 18.06        | -49.4E-12    | 3.53              | 22.4E-9     | 19.4E-9      | 861.9E-3   | 141.2E-3     | 18.11        | -61.4E-12    |
| 1137 | 3.47         | 17.5E-9     | 20.8E-9      | 857.9E-3   | 140.6E-3     | 18.09        | 1.1E-9       | 3.47              | 18.6E-9     | 22.1E-9      | 860.9E-3   | 141.4E-3     | 18.17        | 1.2E-9       |
| 1138 | 3.48         | 18.0E-9     | 29.1E-9      | 860.1E-3   | 140.9E-3     | 18.00        | 594.9E-12    | 3.49              | 20.9E-9     | 32.5E-9      | 861.3E-3   | 141.5E-3     | 18.06        | 692.5E-12    |
| 1139 | 3.48         | 17.5E-9     | 19.5E-9      | 863.2E-3   | 137.5E-3     | 18.03        | -94.2E-12    | 3.49              | 19.3E-9     | 23.1E-9      | 867.0E-3   | 137.8E-3     | 18.06        | -114.2E-12   |
| 1140 | 3.47         | 21.7E-9     | 20.2E-9      | 861.4E-3   | 138.4E-3     | 18.13        | -94.6E-12    | 3.49              | 22.6E-9     | 25.0E-9      | 862.3E-3   | 138.8E-3     | 18.21        | -107.6E-12   |
| 1141 | 3.49         | 13.9E-9     | 18.9E-9      | 859.4E-3   | 136.1E-3     | 18.09        | -166.9E-12   | 3.50              | 16.1E-9     | 20.5E-9      | 864.5E-3   | 136.4E-3     | 18.11        | -204.2E-12   |
| 1142 | 3.48         | 18.1E-9     | 18.3E-9      | 863.0E-3   | 136.4E-3     | 18.10        | -722.5E-12   | 3.48              | 18.4E-9     | 22.0E-9      | 865.2E-3   | 136.8E-3     | 18.12        | -802.0E-12   |
| 1143 | 3.52         | 14.5E-9     | 21.5E-9      | 857.0E-3   | 134.9E-3     | 18.03        | -246.7E-12   | 3.53              | 17.1E-9     | 22.9E-9      | 860.6E-3   | 135.3E-3     | 18.07        | -295.1E-12   |
| 1144 | 3.51         | 15.9E-9     | 18.1E-9      | 863.7E-3   | 135.5E-3     | 18.02        | -712.2E-12   | 3.53              | 17.0E-9     | 20.5E-9      | 865.7E-3   | 135.6E-3     | 18.08        | -737.4E-12   |
| 1145 | 3.48         | 19.2E-9     | 21.1E-9      | 863.1E-3   | 132.4E-3     | 18.01        | -1.1E-9      | 3.49              | 23.7E-9     | 23.6E-9      | 867.0E-3   | 133.1E-3     | 18.06        | -1.2E-9      |
| 1146 | 3.48         | 14.0E-9     | 26.1E-9      | 858.4E-3   | 133.3E-3     | 18.03        | -1.1E-9      | 3.48              | 17.4E-9     | 27.8E-9      | 862.9E-3   | 134.0E-3     | 18.12        | -1.1E-9      |
| 1147 | 3.50         | 17.7E-9     | 24.0E-9      | 859.3E-3   | 131.3E-3     | 17.91        | -290.5E-12   | 3.51              | 20.3E-9     | 26.3E-9      | 862.2E-3   | 131.7E-3     | 17.97        | -359.9E-12   |
| 1148 | 3.50         | 13.5E-9     | 20.0E-9      | 859.0E-3   | 131.6E-3     | 18.06        | -580.8E-12   | 3.51              | 14.7E-9     | 24.2E-9      | 861.2E-3   | 132.3E-3     | 18.14        | -637.7E-12   |
| 1149 | 3.54         | 12.7E-9     | 26.1E-9      | 859.8E-3   | 130.9E-3     | 18.08        | -539.5E-12   | 3.55              | 14.2E-9     | 27.8E-9      | 860.9E-3   | 131.4E-3     | 18.15        | -554.0E-12   |
| 1150 | 3.53         | 12.7E-9     | 24.2E-9      | 859.4E-3   | 130.9E-3     | 17.95        | -849.4E-12   | 3.54              | 13.7E-9     | 26.4E-9      | 861.7E-3   | 131.5E-3     | 18.03        | -1.1E-9      |
| 1151 | 3.56         | 11.0E-9     | 24.2E-9      | 862.4E-3   | 130.7E-3     | 18.07        | -89.2E-12    | 3.57              | 13.6E-9     | 30.4E-9      | 864.2E-3   | 131.4E-3     | 18.15        | -108.1E-12   |
| 1152 | 3.58         | 13.0E-9     | 25.1E-9      | 860.3E-3   | 129.5E-3     | 18.57        | 140.5E-12    | 3.59              | 13.7E-9     | 28.4E-9      | 864.8E-3   | 129.9E-3     | 18.66        | 168.5E-12    |
| 1153 | 3.52         | 13.1E-9     | 21.4E-9      | 858.5E-3   | 131.4E-3     | 17.92        | -49.4E-12    | 3.54              | 14.2E-9     | 25.9E-9      | 862.9E-3   | 131.9E-3     | 18.02        | -61.1E-12    |
| 1154 | 3.51         | 13.4E-9     | 23.5E-9      | 857.5E-3   | 132.0E-3     | 17.99        | -692.2E-12   | 3.53              | 14.4E-9     | 28.9E-9      | 860.0E-3   | 132.2E-3     | 18.09        | -831.8E-12   |
| 1155 | 3.48         | 15.5E-9     | 24.4E-9      | 864.0E-3   | 132.9E-3     | 18.02        | -336.5E-12   | 3.49              | 19.5E-9     | 27.5E-9      | 868.2E-3   | 133.1E-3     | 18.12        | -367.0E-12   |
| 1156 | 3.48         | 15.5E-9     | 20.8E-9      | 857.1E-3   | 132.6E-3     | 18.07        | -743.0E-12   | 3.49              | 19.1E-9     | 21.7E-9      | 861.9E-3   | 133.3E-3     | 18.09        | -889.8E-12   |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 1000hrs, VGS= -24V, 150°C**  
**Lot 6700**

| SN   | Initials     |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1160 | 3.18         | 16.7E-9     | 23.7E-9      | 856.9E-3   | 125.8E-3     | 18.72        | -8.3E-9      |
| 1161 | 3.24         | 15.4E-9     | 22.5E-9      | 854.6E-3   | 122.3E-3     | 18.73        | -9.7E-9      |
| 1162 | 3.21         | 19.1E-9     | 20.1E-9      | 856.8E-3   | 122.9E-3     | 18.92        | -3.9E-9      |
| 1163 | 3.26         | 11.1E-9     | 19.3E-9      | 861.4E-3   | 120.4E-3     | 18.83        | 5.6E-9       |
| 1164 | 3.26         | 14.5E-9     | 22.6E-9      | 855.4E-3   | 121.5E-3     | 18.81        | -7.5E-9      |
| 1165 | 3.23         | 13.3E-9     | 28.1E-9      | 859.2E-3   | 121.8E-3     | 18.81        | -6.0E-9      |
| 1166 | 3.24         | 15.7E-9     | 19.9E-9      | 863.1E-3   | 126.7E-3     | 18.99        | -3.5E-9      |
| 1167 | 3.20         | 12.5E-9     | 19.9E-9      | 855.5E-3   | 125.6E-3     | 18.89        | -9.0E-9      |
| 1168 | 3.24         | 10.4E-9     | 20.9E-9      | 857.2E-3   | 128.3E-3     | 18.74        | -7.5E-9      |
| 1169 | 3.23         | 11.8E-9     | 22.2E-9      | 855.2E-3   | 126.7E-3     | 18.95        | -6.8E-9      |
| 1170 | 3.35         | 12.0E-9     | 20.6E-9      | 863.1E-3   | 125.4E-3     | 18.62        | -7.3E-9      |
| 1171 | 3.22         | 16.3E-9     | 21.2E-9      | 859.5E-3   | 127.7E-3     | 18.78        | -8.8E-9      |
| 1172 | 3.33         | 16.7E-9     | 22.2E-9      | 858.3E-3   | 126.1E-3     | 18.54        | -7.4E-9      |
| 1173 | 3.33         | 13.0E-9     | 23.4E-9      | 860.3E-3   | 127.2E-3     | 18.61        | -2.3E-9      |
| 1174 | 3.24         | 20.7E-9     | 20.3E-9      | 855.5E-3   | 127.2E-3     | 18.81        | 817.4E-12    |
| 1175 | 3.25         | 9.3E-9      | 24.6E-9      | 860.7E-3   | 126.5E-3     | 18.78        | -7.5E-9      |
| 1176 | 3.23         | 10.4E-9     | 22.9E-9      | 861.9E-3   | 125.5E-3     | 18.45        | -7.0E-9      |
| 1177 | 3.24         | 18.5E-9     | 21.8E-9      | 858.4E-3   | 127.0E-3     | 18.72        | -7.5E-9      |
| 1178 | 3.25         | 19.2E-9     | 23.3E-9      | 857.5E-3   | 125.4E-3     | 18.26        | -6.1E-9      |
| 1179 | 3.27         | 15.2E-9     | 25.2E-9      | 863.3E-3   | 124.3E-3     | 18.35        | -3.4E-9      |
| 1180 | 3.28         | 15.9E-9     | 21.7E-9      | 857.5E-3   | 124.1E-3     | 18.37        | -7.2E-9      |
| 1181 | 3.31         | 13.6E-9     | 23.6E-9      | 861.4E-3   | 124.3E-3     | 18.29        | -6.3E-9      |
| 1182 | 3.22         | 10.6E-9     | 20.7E-9      | 861.0E-3   | 125.6E-3     | 18.30        | -7.2E-9      |
| 1183 | 3.22         | 15.6E-9     | 20.1E-9      | 859.6E-3   | 126.5E-3     | 18.42        | -7.4E-9      |
| 1184 | 3.21         | 14.3E-9     | 22.0E-9      | 857.3E-3   | 126.3E-3     | 18.41        | -8.6E-9      |
| 1185 | 3.23         | 9.9E-9      | 21.3E-9      | 856.1E-3   | 127.0E-3     | 18.32        | -4.2E-9      |

| 1000Hr End Points |             |              |            |              |              |              |
|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
| VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.19              | 17.6E-9     | 29.4E-9      | 859.1E-3   | 126.3E-3     | 18.77        | -9.4E-9      |
| 3.25              | 16.1E-9     | 24.0E-9      | 857.1E-3   | 122.9E-3     | 18.79        | -12.1E-9     |
| 3.22              | 19.3E-9     | 21.4E-9      | 860.3E-3   | 123.4E-3     | 19.01        | -4.4E-9      |
| 3.27              | 11.6E-9     | 20.4E-9      | 866.4E-3   | 120.7E-3     | 18.92        | 6.0E-9       |
| 3.27              | 15.9E-9     | 25.0E-9      | 859.8E-3   | 121.7E-3     | 18.84        | -9.1E-9      |
| 3.25              | 13.6E-9     | 35.0E-9      | 860.5E-3   | 122.2E-3     | 18.84        | -6.1E-9      |
| 3.25              | 17.8E-9     | 24.2E-9      | 867.7E-3   | 127.3E-3     | 19.10        | -4.3E-9      |
| 3.21              | 13.2E-9     | 23.8E-9      | 859.1E-3   | 126.1E-3     | 18.93        | -11.3E-9     |
| 3.25              | 10.6E-9     | 23.6E-9      | 859.4E-3   | 129.0E-3     | 18.76        | -8.2E-9      |
| 3.25              | 14.7E-9     | 23.9E-9      | 857.0E-3   | 127.4E-3     | 19.02        | -7.4E-9      |
| 3.36              | 12.5E-9     | 24.4E-9      | 865.3E-3   | 125.6E-3     | 18.67        | -8.8E-9      |
| 3.22              | 17.9E-9     | 24.7E-9      | 861.5E-3   | 128.2E-3     | 18.80        | -9.7E-9      |
| 3.34              | 17.2E-9     | 25.1E-9      | 863.3E-3   | 126.3E-3     | 18.64        | -9.2E-9      |
| 3.34              | 16.0E-9     | 25.9E-9      | 862.7E-3   | 127.7E-3     | 18.67        | -2.3E-9      |
| 3.25              | 23.2E-9     | 24.4E-9      | 858.2E-3   | 127.8E-3     | 18.87        | 911.7E-12    |
| 3.26              | 9.9E-9      | 27.3E-9      | 864.5E-3   | 126.6E-3     | 18.89        | -7.6E-9      |
| 3.24              | 11.3E-9     | 23.8E-9      | 865.1E-3   | 126.1E-3     | 18.49        | -7.5E-9      |
| 3.25              | 20.6E-9     | 23.2E-9      | 860.5E-3   | 127.4E-3     | 18.77        | -8.1E-9      |
| 3.25              | 22.7E-9     | 26.9E-9      | 860.5E-3   | 125.5E-3     | 18.36        | -6.8E-9      |
| 3.29              | 18.2E-9     | 31.4E-9      | 865.2E-3   | 124.8E-3     | 18.41        | -4.1E-9      |
| 3.29              | 19.5E-9     | 22.2E-9      | 859.8E-3   | 124.3E-3     | 18.45        | -8.4E-9      |
| 3.32              | 15.3E-9     | 24.4E-9      | 862.9E-3   | 124.6E-3     | 18.34        | -7.4E-9      |
| 3.23              | 11.6E-9     | 23.6E-9      | 863.4E-3   | 126.3E-3     | 18.35        | -7.7E-9      |
| 3.24              | 17.7E-9     | 24.8E-9      | 863.1E-3   | 126.8E-3     | 18.52        | -9.1E-9      |
| 3.23              | 16.8E-9     | 25.9E-9      | 860.7E-3   | 126.6E-3     | 18.49        | -8.7E-9      |
| 3.24              | 10.6E-9     | 22.7E-9      | 857.5E-3   | 127.6E-3     | 18.39        | -5.1E-9      |



**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 1000hrs, VGS= -24V, 150°C**  
**Lot 6700**

| SN   | Initials     |             |              |            |              |              |              | 1000Hr End Points |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1186 | 3.23         | 11.6E-9     | 25.6E-9      | 856.7E-3   | 120.8E-3     | 18.68        | -7.9E-9      | 3.24              | 13.4E-9     | 26.5E-9      | 861.1E-3   | 120.9E-3     | 18.75        | -8.9E-9      |
| 1187 | 3.23         | 10.1E-9     | 21.6E-9      | 862.9E-3   | 127.6E-3     | 18.53        | -7.6E-9      | 3.24              | 10.5E-9     | 23.9E-9      | 867.3E-3   | 128.1E-3     | 18.59        | -8.5E-9      |
| 1188 | 3.25         | 10.5E-9     | 22.7E-9      | 860.7E-3   | 120.4E-3     | 18.88        | -6.9E-9      | 3.27              | 11.1E-9     | 23.9E-9      | 862.7E-3   | 120.7E-3     | 18.96        | -7.6E-9      |
| 1189 | 3.24         | 16.1E-9     | 19.5E-9      | 860.1E-3   | 129.7E-3     | 18.42        | -7.3E-9      | 3.26              | 19.0E-9     | 24.3E-9      | 865.2E-3   | 130.4E-3     | 18.45        | -7.8E-9      |
| 1190 | 3.28         | 12.5E-9     | 19.8E-9      | 856.9E-3   | 120.9E-3     | 18.68        | -8.1E-9      | 3.30              | 15.1E-9     | 23.7E-9      | 859.7E-3   | 121.2E-3     | 18.79        | -9.0E-9      |
| 1191 | 3.24         | 13.2E-9     | 21.4E-9      | 858.9E-3   | 120.4E-3     | 18.62        | -7.0E-9      | 3.25              | 14.9E-9     | 25.3E-9      | 861.7E-3   | 120.8E-3     | 18.65        | -7.3E-9      |
| 1192 | 3.25         | 14.0E-9     | 23.7E-9      | 858.7E-3   | 121.9E-3     | 18.84        | -9.2E-9      | 3.26              | 16.6E-9     | 27.2E-9      | 862.8E-3   | 122.5E-3     | 18.87        | -10.5E-9     |
| 1193 | 3.19         | 12.7E-9     | 23.3E-9      | 857.1E-3   | 121.3E-3     | 18.84        | -9.0E-9      | 3.19              | 13.8E-9     | 27.2E-9      | 861.4E-3   | 121.7E-3     | 18.87        | -10.7E-9     |
| 1194 | 3.22         | 18.4E-9     | 129.8E-9     | 858.3E-3   | 123.0E-3     | 18.92        | -7.8E-9      | 3.23              | 20.7E-9     | 145.1E-9     | 861.5E-3   | 123.1E-3     | 19.00        | -8.4E-9      |
| 1195 | 3.23         | 11.8E-9     | 21.4E-9      | 857.5E-3   | 123.2E-3     | 18.91        | -9.1E-9      | 3.23              | 14.0E-9     | 22.9E-9      | 859.5E-3   | 123.3E-3     | 18.95        | -10.1E-9     |
| 1196 | 3.20         | 15.7E-9     | 20.3E-9      | 854.9E-3   | 127.1E-3     | 19.03        | -7.0E-9      | 3.22              | 16.1E-9     | 23.2E-9      | 856.5E-3   | 127.6E-3     | 19.11        | -7.4E-9      |
| 1197 | 3.22         | 15.7E-9     | 18.7E-9      | 856.4E-3   | 125.9E-3     | 19.02        | -7.4E-9      | 3.23              | 17.3E-9     | 19.2E-9      | 859.2E-3   | 126.3E-3     | 19.05        | -9.0E-9      |
| 1198 | 3.19         | 16.2E-9     | 24.1E-9      | 862.7E-3   | 123.7E-3     | 19.02        | -6.9E-9      | 3.20              | 19.9E-9     | 28.9E-9      | 863.8E-3   | 124.2E-3     | 19.09        | -7.4E-9      |
| 1199 | 3.21         | 13.7E-9     | 25.6E-9      | 856.6E-3   | 122.0E-3     | 18.87        | -6.1E-9      | 3.22              | 16.4E-9     | 31.6E-9      | 860.6E-3   | 122.5E-3     | 18.94        | -6.5E-9      |
| 1200 | 3.21         | 18.4E-9     | 25.7E-9      | 855.0E-3   | 121.6E-3     | 18.80        | -7.0E-9      | 3.22              | 18.8E-9     | 29.3E-9      | 858.9E-3   | 122.0E-3     | 18.88        | -7.6E-9      |
| 1201 | 3.21         | 13.9E-9     | 29.1E-9      | 861.8E-3   | 128.8E-3     | 18.78        | -4.2E-9      | 3.22              | 17.4E-9     | 31.3E-9      | 862.8E-3   | 129.2E-3     | 18.86        | -5.1E-9      |
| 1202 | 3.18         | 17.6E-9     | 27.2E-9      | 856.2E-3   | 130.2E-3     | 18.98        | -8.1E-9      | 3.19              | 19.0E-9     | 31.5E-9      | 860.8E-3   | 131.0E-3     | 19.04        | -8.6E-9      |
| 1203 | 3.16         | 16.4E-9     | 28.0E-9      | 861.4E-3   | 128.0E-3     | 18.97        | -3.8E-9      | 3.17              | 20.3E-9     | 30.6E-9      | 865.2E-3   | 128.7E-3     | 19.04        | -4.2E-9      |
| 1204 | 3.21         | 18.0E-9     | 26.1E-9      | 859.1E-3   | 121.1E-3     | 18.77        | -4.3E-9      | 3.23              | 19.3E-9     | 27.5E-9      | 860.3E-3   | 121.8E-3     | 18.83        | -4.8E-9      |
| 1205 | 3.20         | 18.2E-9     | 24.3E-9      | 859.9E-3   | 121.8E-3     | 18.93        | -6.7E-9      | 3.21              | 20.3E-9     | 28.9E-9      | 863.1E-3   | 122.5E-3     | 18.99        | -7.3E-9      |
| 1206 | 3.20         | 18.2E-9     | 27.9E-9      | 860.4E-3   | 120.8E-3     | 18.79        | -9.2E-9      | 3.22              | 21.3E-9     | 31.8E-9      | 863.0E-3   | 121.5E-3     | 18.89        | -11.2E-9     |
| 1207 | 3.24         | 19.4E-9     | 22.5E-9      | 856.5E-3   | 120.6E-3     | 18.81        | -7.5E-9      | 3.25              | 24.3E-9     | 27.8E-9      | 860.8E-3   | 121.2E-3     | 18.90        | -9.4E-9      |
| 1208 | 3.23         | 10.4E-9     | 20.3E-9      | 856.3E-3   | 120.8E-3     | 18.58        | -8.1E-9      | 3.25              | 11.0E-9     | 24.8E-9      | 861.1E-3   | 121.1E-3     | 18.68        | -9.5E-9      |
| 1209 | 3.31         | 20.3E-9     | 17.6E-9      | 857.4E-3   | 121.2E-3     | 18.49        | -4.5E-9      | 3.32              | 24.4E-9     | 18.1E-9      | 860.6E-3   | 121.7E-3     | 18.56        | -5.2E-9      |
| 1210 | 3.31         | 16.6E-9     | 18.7E-9      | 862.4E-3   | 121.8E-3     | 18.63        | -8.4E-9      | 3.31              | 19.0E-9     | 19.9E-9      | 865.4E-3   | 122.5E-3     | 18.70        | -9.9E-9      |
| 1211 | 3.31         | 15.6E-9     | 18.5E-9      | 860.9E-3   | 121.0E-3     | 18.59        | -7.2E-9      | 3.32              | 15.8E-9     | 22.2E-9      | 863.2E-3   | 121.7E-3     | 18.62        | -8.7E-9      |

**Steady State Gate Bias**  
**Mil-Std 750 M 1042-B, 1000hrs, VGS= -24V, 150°C**  
**Lot 6700**

| SN   | Initials     |             |              |            |              |              |              | 1000Hr End Points |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1212 | 3.28         | 16.8E-9     | 19.1E-9      | 857.4E-3   | 123.2E-3     | 18.56        | -7.4E-9      | 3.29              | 19.7E-9     | 21.0E-9      | 858.4E-3   | 123.4E-3     | 18.64        | -8.2E-9      |
| 1213 | 3.25         | 19.4E-9     | 18.4E-9      | 862.7E-3   | 120.8E-3     | 18.57        | -7.9E-9      | 3.26              | 20.4E-9     | 19.5E-9      | 866.5E-3   | 121.1E-3     | 18.61        | -8.5E-9      |
| 1214 | 3.29         | 13.6E-9     | 18.3E-9      | 856.5E-3   | 119.7E-3     | 18.63        | -7.0E-9      | 3.31              | 16.9E-9     | 21.2E-9      | 860.0E-3   | 119.9E-3     | 18.69        | -8.6E-9      |
| 1215 | 3.28         | 18.3E-9     | 20.9E-9      | 862.4E-3   | 121.5E-3     | 18.67        | -7.9E-9      | 3.29              | 22.5E-9     | 23.7E-9      | 863.7E-3   | 122.1E-3     | 18.73        | -8.5E-9      |
| 1216 | 3.22         | 21.0E-9     | 17.2E-9      | 861.9E-3   | 120.8E-3     | 18.73        | -8.0E-9      | 3.23              | 26.1E-9     | 20.6E-9      | 867.0E-3   | 121.5E-3     | 18.80        | -8.6E-9      |
| 1217 | 3.25         | 17.2E-9     | 19.4E-9      | 858.6E-3   | 120.7E-3     | 18.70        | -7.9E-9      | 3.26              | 20.1E-9     | 20.8E-9      | 862.1E-3   | 121.0E-3     | 18.73        | -8.9E-9      |
| 1218 | 3.18         | 16.7E-9     | 34.3E-9      | 856.9E-3   | 123.3E-3     | 18.96        | -9.3E-9      | 3.19              | 20.1E-9     | 35.7E-9      | 861.0E-3   | 123.6E-3     | 19.04        | -10.9E-9     |
| 1219 | 3.29         | 17.1E-9     | 19.1E-9      | 861.5E-3   | 119.8E-3     | 18.75        | -4.3E-9      | 3.29              | 19.5E-9     | 21.2E-9      | 864.5E-3   | 120.2E-3     | 18.83        | -5.1E-9      |
| 1220 | 3.17         | 17.6E-9     | 22.4E-9      | 854.1E-3   | 123.9E-3     | 18.93        | -10.0E-9     | 3.19              | 20.1E-9     | 23.3E-9      | 856.1E-3   | 124.2E-3     | 19.04        | -11.9E-9     |
| 1221 | 3.23         | 16.2E-9     | 19.3E-9      | 858.3E-3   | 122.2E-3     | 18.65        | -6.3E-9      | 3.24              | 17.9E-9     | 22.0E-9      | 861.6E-3   | 122.5E-3     | 18.70        | -7.4E-9      |
| 1222 | 3.21         | 19.3E-9     | 19.1E-9      | 858.9E-3   | 130.0E-3     | 18.94        | -8.8E-9      | 3.23              | 23.2E-9     | 19.6E-9      | 862.9E-3   | 130.7E-3     | 18.98        | -10.0E-9     |
| 1223 | 3.22         | 12.7E-9     | 20.6E-9      | 861.6E-3   | 131.3E-3     | 18.75        | -7.8E-9      | 3.23              | 13.5E-9     | 20.8E-9      | 866.7E-3   | 131.8E-3     | 18.84        | -9.1E-9      |
| 1224 | 3.27         | 14.1E-9     | 17.6E-9      | 859.1E-3   | 131.8E-3     | 18.81        | -6.5E-9      | 3.28              | 16.5E-9     | 20.6E-9      | 863.6E-3   | 132.2E-3     | 18.92        | -7.5E-9      |
| 1225 | 3.33         | 20.5E-9     | 23.4E-9      | 858.4E-3   | 128.3E-3     | 18.62        | -5.6E-9      | 3.35              | 20.7E-9     | 24.0E-9      | 863.0E-3   | 128.5E-3     | 18.66        | -6.4E-9      |
| 1226 | 3.27         | 15.0E-9     | 27.6E-9      | 863.9E-3   | 129.3E-3     | 18.67        | 1.4E-9       | 3.27              | 16.0E-9     | 28.9E-9      | 868.3E-3   | 129.7E-3     | 18.70        | 1.6E-9       |
| 1227 | 3.36         | 21.3E-9     | 24.6E-9      | 861.5E-3   | 126.4E-3     | 18.44        | 3.5E-9       | 3.38              | 25.4E-9     | 29.6E-9      | 862.5E-3   | 127.0E-3     | 18.46        | 3.9E-9       |
| 1228 | 3.20         | 11.4E-9     | 22.2E-9      | 856.8E-3   | 123.6E-3     | 19.18        | -8.8E-9      | 3.21              | 13.9E-9     | 25.3E-9      | 860.3E-3   | 124.1E-3     | 19.24        | -10.4E-9     |
| 1229 | 3.29         | 11.7E-9     | 24.9E-9      | 855.3E-3   | 128.6E-3     | 18.55        | -6.3E-9      | 3.31              | 13.8E-9     | 30.6E-9      | 858.0E-3   | 128.7E-3     | 18.63        | -7.0E-9      |
| 1230 | 3.22         | 15.5E-9     | 20.0E-9      | 858.9E-3   | 123.3E-3     | 18.86        | -7.7E-9      | 3.23              | 18.8E-9     | 24.8E-9      | 861.2E-3   | 123.7E-3     | 18.87        | -9.5E-9      |
| 1231 | 3.23         | 10.8E-9     | 21.7E-9      | 862.4E-3   | 124.9E-3     | 19.08        | -3.7E-9      | 3.25              | 13.3E-9     | 22.7E-9      | 866.4E-3   | 125.3E-3     | 19.17        | -4.4E-9      |
| 1232 | 3.26         | 15.4E-9     | 25.4E-9      | 860.9E-3   | 123.1E-3     | 18.70        | -7.3E-9      | 3.28              | 16.0E-9     | 27.8E-9      | 865.8E-3   | 123.8E-3     | 18.77        | -8.5E-9      |
| 1233 | 3.19         | 13.6E-9     | 24.6E-9      | 858.7E-3   | 123.6E-3     | 18.90        | -8.6E-9      | 3.20              | 14.6E-9     | 25.4E-9      | 861.5E-3   | 124.1E-3     | 19.00        | -9.4E-9      |
| 1234 | 3.25         | 14.7E-9     | 21.5E-9      | 854.9E-3   | 123.7E-3     | 18.81        | -9.1E-9      | 3.26              | 16.1E-9     | 25.7E-9      | 859.5E-3   | 124.2E-3     | 18.87        | -9.9E-9      |
| 1235 | 3.25         | 17.6E-9     | 20.5E-9      | 859.5E-3   | 123.7E-3     | 18.63        | -8.1E-9      | 3.26              | 19.6E-9     | 22.3E-9      | 863.6E-3   | 124.3E-3     | 18.72        | -10.1E-9     |
| 1236 | 3.23         | 17.2E-9     | 23.1E-9      | 861.4E-3   | 123.6E-3     | 18.84        | -8.7E-9      | 3.25              | 19.8E-9     | 28.9E-9      | 863.4E-3   | 124.1E-3     | 18.92        | -10.9E-9     |

# ***Steady State Reverse Bias***

**Steady State Reverse Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 520V, 150°C**  
**Lot 6701**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 241 | 3.28         | 14.3E-9     | 32.4E-9      | 846.0E-3   | 131.2E-3     | 17.84        | -1.1E-9      | 3.25             | 16.0E-9     | 36.2E-9      | 845.6E-3   | 131.9E-3     | 17.80        | -486.2E-12   |
| 242 | 3.29         | 12.3E-9     | 32.8E-9      | 846.4E-3   | 130.3E-3     | 17.86        | -680.0E-12   | 3.29             | 13.0E-9     | 36.4E-9      | 844.2E-3   | 131.3E-3     | 17.80        | -84.7E-12    |
| 243 | 3.26         | 15.4E-9     | 30.0E-9      | 845.6E-3   | 132.5E-3     | 17.86        | -440.0E-12   | 3.23             | 16.7E-9     | 31.2E-9      | 843.4E-3   | 132.6E-3     | 17.82        | 135.1E-12    |
| 244 | 3.27         | 16.4E-9     | 34.4E-9      | 845.6E-3   | 132.3E-3     | 17.89        | -1.4E-9      | 3.26             | 17.6E-9     | 37.6E-9      | 844.1E-3   | 133.6E-3     | 17.85        | -807.7E-12   |
| 245 | 3.17         | 16.9E-9     | 31.2E-9      | 843.2E-3   | 131.9E-3     | 18.20        | -680.0E-12   | 3.15             | 17.9E-9     | 34.8E-9      | 841.4E-3   | 132.3E-3     | 18.20        | -113.6E-12   |
| 246 | 3.25         | 18.4E-9     | 31.6E-9      | 845.6E-3   | 132.8E-3     | 17.93        | 280.0E-12    | 3.22             | 20.0E-9     | 33.0E-9      | 844.2E-3   | 133.8E-3     | 17.90        | 893.8E-12    |
| 247 | 3.24         | 15.4E-9     | 30.0E-9      | 844.8E-3   | 133.4E-3     | 17.98        | -1.9E-9      | 3.21             | 16.9E-9     | 31.0E-9      | 842.3E-3   | 133.5E-3     | 17.94        | -1.3E-9      |
| 248 | 3.24         | 19.5E-9     | 29.6E-9      | 845.6E-3   | 132.6E-3     | 17.93        | -200.0E-12   | 3.23             | 20.3E-9     | 32.6E-9      | 842.6E-3   | 133.0E-3     | 17.90        | 381.4E-12    |
| 249 | 3.19         | 18.4E-9     | 34.4E-9      | 842.8E-3   | 132.9E-3     | 18.23        | -640.0E-12   | 3.18             | 20.2E-9     | 35.9E-9      | 840.4E-3   | 133.1E-3     | 18.19        | -88.5E-12    |
| 250 | 3.22         | 15.4E-9     | 32.4E-9      | 843.2E-3   | 134.9E-3     | 17.90        | -1.1E-9      | 3.21             | 16.4E-9     | 35.7E-9      | 841.4E-3   | 135.1E-3     | 17.83        | -564.1E-12   |
| 251 | 3.24         | 16.9E-9     | 28.8E-9      | 845.2E-3   | 135.4E-3     | 17.96        | -440.0E-12   | 3.23             | 17.7E-9     | 30.7E-9      | 843.5E-3   | 135.5E-3     | 17.89        | 119.9E-12    |
| 252 | 3.22         | 16.9E-9     | 169.2E-9     | 844.8E-3   | 134.5E-3     | 17.96        | 80.0E-12     | 3.21             | 18.8E-9     | 172.1E-9     | 842.4E-3   | 135.8E-3     | 17.94        | 686.2E-12    |
| 253 | 3.22         | 18.4E-9     | 36.0E-9      | 843.2E-3   | 133.6E-3     | 18.11        | -920.0E-12   | 3.22             | 19.3E-9     | 38.4E-9      | 841.7E-3   | 134.1E-3     | 18.08        | -398.5E-12   |
| 254 | 3.24         | 14.3E-9     | 30.4E-9      | 843.6E-3   | 137.0E-3     | 17.92        | -880.0E-12   | 3.23             | 15.3E-9     | 33.7E-9      | 842.0E-3   | 138.0E-3     | 17.91        | -365.2E-12   |
| 255 | 3.26         | 14.3E-9     | 30.8E-9      | 844.4E-3   | 137.9E-3     | 17.95        | -960.0E-12   | 3.24             | 15.5E-9     | 32.8E-9      | 843.3E-3   | 138.5E-3     | 17.92        | -364.6E-12   |
| 256 | 3.26         | 16.4E-9     | 30.0E-9      | 846.8E-3   | 137.0E-3     | 17.89        | -880.0E-12   | 3.23             | 17.6E-9     | 30.8E-9      | 844.7E-3   | 138.2E-3     | 17.86        | -299.8E-12   |
| 257 | 3.30         | 12.8E-9     | 31.6E-9      | 845.2E-3   | 138.0E-3     | 17.93        | -560.0E-12   | 3.29             | 13.7E-9     | 32.3E-9      | 842.6E-3   | 138.4E-3     | 17.90        | 8.7E-12      |
| 258 | 3.28         | 10.8E-9     | 36.0E-9      | 844.8E-3   | 138.1E-3     | 17.94        | -1.2E-9      | 3.27             | 12.1E-9     | 37.2E-9      | 844.3E-3   | 138.3E-3     | 17.94        | -706.1E-12   |
| 259 | 3.26         | 14.3E-9     | 28.8E-9      | 844.8E-3   | 131.3E-3     | 18.02        | -520.0E-12   | 3.25             | 16.4E-9     | 31.7E-9      | 842.3E-3   | 132.4E-3     | 17.98        | 72.9E-12     |
| 260 | 3.26         | 13.3E-9     | 30.0E-9      | 846.0E-3   | 131.8E-3     | 18.01        | -640.0E-12   | 3.24             | 14.7E-9     | 33.5E-9      | 845.5E-3   | 132.4E-3     | 17.94        | -90.1E-12    |
| 261 | 3.22         | 17.7E-9     | 36.0E-9      | 843.6E-3   | 133.0E-3     | 18.14        | -1.0E-9      | 3.21             | 18.6E-9     | 38.7E-9      | 840.7E-3   | 133.6E-3     | 18.11        | -406.8E-12   |
| 262 | 3.26         | 13.8E-9     | 31.6E-9      | 844.0E-3   | 131.3E-3     | 17.92        | -360.0E-12   | 3.24             | 15.3E-9     | 35.0E-9      | 843.8E-3   | 131.8E-3     | 17.85        | 220.4E-12    |
| 263 | 3.25         | 14.3E-9     | 34.0E-9      | 844.0E-3   | 133.5E-3     | 18.07        | -1.0E-9      | 3.24             | 15.8E-9     | 36.7E-9      | 843.9E-3   | 134.3E-3     | 18.07        | -481.8E-12   |
| 264 | 3.29         | 10.2E-9     | 32.4E-9      | 846.8E-3   | 130.6E-3     | 17.88        | -640.0E-12   | 3.29             | 11.6E-9     | 35.0E-9      | 845.0E-3   | 131.1E-3     | 17.83        | -64.3E-12    |
| 265 | 3.23         | 15.4E-9     | 35.2E-9      | 844.4E-3   | 132.4E-3     | 18.07        | -920.0E-12   | 3.21             | 16.6E-9     | 37.6E-9      | 841.9E-3   | 133.6E-3     | 18.06        | -384.7E-12   |

**Steady State Reverse Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 520V, 150°C**  
**Lot 6701**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 266 | 3.29         | 8.2E-9      | 33.6E-9      | 845.2E-3   | 129.8E-3     | 17.88        | 880.0E-12    | 3.26             | 8.9E-9      | 37.2E-9      | 842.8E-3   | 131.0E-3     | 17.84        | 1.6E-9       |
| 267 | 3.26         | 16.4E-9     | 34.0E-9      | 842.8E-3   | 133.9E-3     | 17.93        | -680.0E-12   | 3.24             | 17.5E-9     | 34.7E-9      | 841.0E-3   | 135.1E-3     | 17.88        | -125.7E-12   |
| 268 | 3.28         | 11.5E-9     | 34.0E-9      | 844.4E-3   | 130.0E-3     | 17.94        | 640.0E-12    | 3.27             | 12.6E-9     | 37.7E-9      | 843.9E-3   | 130.2E-3     | 17.89        | 1.3E-9       |
| 269 | 3.24         | 14.9E-9     | 32.8E-9      | 843.2E-3   | 134.6E-3     | 17.84        | -760.0E-12   | 3.23             | 16.1E-9     | 36.3E-9      | 840.3E-3   | 135.6E-3     | 17.83        | -219.8E-12   |
| 270 | 3.19         | 16.4E-9     | 30.4E-9      | 844.8E-3   | 135.8E-3     | 18.07        | -1.3E-9      | 3.17             | 18.0E-9     | 33.8E-9      | 844.5E-3   | 135.9E-3     | 18.02        | -825.3E-12   |
| 271 | 3.26         | 14.9E-9     | 34.0E-9      | 842.4E-3   | 132.6E-3     | 17.81        | -840.0E-12   | 3.23             | 16.4E-9     | 37.8E-9      | 842.1E-3   | 133.7E-3     | 17.78        | -303.2E-12   |
| 272 | 3.20         | 16.4E-9     | 30.8E-9      | 845.6E-3   | 133.7E-3     | 18.17        | -1.0E-9      | 3.18             | 18.2E-9     | 32.0E-9      | 843.3E-3   | 134.0E-3     | 18.13        | -459.9E-12   |
| 273 | 3.20         | 18.4E-9     | 34.8E-9      | 846.0E-3   | 131.2E-3     | 18.08        | -920.0E-12   | 3.18             | 19.2E-9     | 37.5E-9      | 845.4E-3   | 131.4E-3     | 18.05        | -378.2E-12   |
| 274 | 3.20         | 16.9E-9     | 31.6E-9      | 846.8E-3   | 131.8E-3     | 18.05        | -560.0E-12   | 3.20             | 18.7E-9     | 32.4E-9      | 845.4E-3   | 132.0E-3     | 18.03        | 4.9E-12      |
| 275 | 3.21         | 16.4E-9     | 33.2E-9      | 846.4E-3   | 129.6E-3     | 17.98        | -440.0E-12   | 3.21             | 18.4E-9     | 36.8E-9      | 843.7E-3   | 130.5E-3     | 17.95        | 141.4E-12    |
| 276 | 3.24         | 12.8E-9     | 39.6E-9      | 845.6E-3   | 129.5E-3     | 17.96        | -40.0E-12    | 3.21             | 14.6E-9     | 44.0E-9      | 844.5E-3   | 129.6E-3     | 17.93        | 556.4E-12    |
| 277 | 3.22         | 16.9E-9     | 33.2E-9      | 846.4E-3   | 130.2E-3     | 18.01        | -480.0E-12   | 3.20             | 18.1E-9     | 36.2E-9      | 846.2E-3   | 130.2E-3     | 17.95        | 93.5E-12     |
| 278 | 3.27         | 16.4E-9     | 32.0E-9      | 844.4E-3   | 133.2E-3     | 17.83        | -320.0E-12   | 3.24             | 17.1E-9     | 33.1E-9      | 841.8E-3   | 133.2E-3     | 17.82        | 258.1E-12    |
| 279 | 3.23         | 19.5E-9     | 34.8E-9      | 846.4E-3   | 130.2E-3     | 17.94        | -360.0E-12   | 3.21             | 20.5E-9     | 36.2E-9      | 843.5E-3   | 130.5E-3     | 17.93        | 209.6E-12    |
| 280 | 3.24         | 16.4E-9     | 37.2E-9      | 846.4E-3   | 129.7E-3     | 17.94        | 240.0E-12    | 3.24             | 17.4E-9     | 38.0E-9      | 845.3E-3   | 129.8E-3     | 17.92        | 848.0E-12    |
| 281 | 3.26         | 12.3E-9     | 39.2E-9      | 842.0E-3   | 131.8E-3     | 17.95        | -960.0E-12   | 3.25             | 14.0E-9     | 39.8E-9      | 839.1E-3   | 132.0E-3     | 17.92        | -380.4E-12   |
| 282 | 3.23         | 14.9E-9     | 38.0E-9      | 844.8E-3   | 129.9E-3     | 17.96        | -640.0E-12   | 3.23             | 15.5E-9     | 39.6E-9      | 842.2E-3   | 130.7E-3     | 17.90        | -99.0E-12    |
| 283 | 3.24         | 15.4E-9     | 38.8E-9      | 845.6E-3   | 130.3E-3     | 18.00        | -520.0E-12   | 3.21             | 16.6E-9     | 40.5E-9      | 844.7E-3   | 130.7E-3     | 17.94        | 66.1E-12     |
| 284 | 3.23         | 16.4E-9     | 36.0E-9      | 845.6E-3   | 130.4E-3     | 17.96        | 15.5E-9      | 3.20             | 17.5E-9     | 36.9E-9      | 843.7E-3   | 130.7E-3     | 17.93        | 16.4E-9      |
| 285 | 3.22         | 16.4E-9     | 29.6E-9      | 845.2E-3   | 135.1E-3     | 18.11        | -400.0E-12   | 3.21             | 17.7E-9     | 30.8E-9      | 843.5E-3   | 135.5E-3     | 18.07        | 174.0E-12    |
| 286 | 3.21         | 16.4E-9     | 39.6E-9      | 845.2E-3   | 130.1E-3     | 17.99        | 4.2E-9       | 3.21             | 18.4E-9     | 42.5E-9      | 845.0E-3   | 131.0E-3     | 17.96        | 5.0E-9       |
| 287 | 3.27         | 12.3E-9     | 32.4E-9      | 845.6E-3   | 131.1E-3     | 17.87        | 120.0E-12    | 3.25             | 13.9E-9     | 33.3E-9      | 843.1E-3   | 131.7E-3     | 17.84        | 729.2E-12    |
| 288 | 3.21         | 13.8E-9     | 39.2E-9      | 844.8E-3   | 130.8E-3     | 18.01        | -120.0E-12   | 3.21             | 15.6E-9     | 41.6E-9      | 842.3E-3   | 131.0E-3     | 17.97        | 472.8E-12    |
| 289 | 3.26         | 13.8E-9     | 36.0E-9      | 844.8E-3   | 130.7E-3     | 17.87        | 40.0E-12     | 3.23             | 15.4E-9     | 36.6E-9      | 843.1E-3   | 131.4E-3     | 17.83        | 641.6E-12    |
| 290 | 3.24         | 17.4E-9     | 28.0E-9      | 846.0E-3   | 133.2E-3     | 18.29        | -9.0E-9      | 3.23             | 18.9E-9     | 29.7E-9      | 843.3E-3   | 134.1E-3     | 18.29        | -9.2E-9      |

**Steady State Reverse Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 520V, 150°C**  
**Lot 6701**

| SN  | Initials     |             |              |            |               |              |              |
|-----|--------------|-------------|--------------|------------|---------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS ON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 291 | 3.23         | 18.4E-9     | 28.8E-9      | 846.4E-3   | 133.3E-3      | 18.32        | -520.0E-12   |
| 292 | 3.24         | 12.8E-9     | 28.4E-9      | 846.0E-3   | 132.9E-3      | 18.30        | 680.0E-12    |
| 293 | 3.23         | 14.3E-9     | 26.8E-9      | 846.8E-3   | 137.0E-3      | 18.04        | -280.0E-12   |
| 294 | 3.22         | 13.3E-9     | 26.8E-9      | 846.4E-3   | 136.1E-3      | 18.02        | -6.4E-9      |
| 295 | 3.20         | 10.5E-9     | 28.0E-9      | 845.6E-3   | 135.4E-3      | 18.08        | -440.0E-12   |
| 296 | 3.23         | 12.8E-9     | 24.8E-9      | 846.4E-3   | 137.2E-3      | 17.98        | 320.0E-12    |
| 297 | 3.29         | 10.8E-9     | 25.2E-9      | 847.2E-3   | 136.0E-3      | 17.98        | -160.0E-12   |
| 298 | 3.27         | 11.3E-9     | 26.4E-9      | 847.6E-3   | 136.7E-3      | 17.99        | -600.0E-12   |
| 299 | 3.33         | 8.7E-9      | 26.4E-9      | 847.6E-3   | 135.4E-3      | 17.98        | 200.0E-12    |
| 300 | 3.32         | 10.8E-9     | 25.6E-9      | 847.6E-3   | 136.3E-3      | 17.99        | 280.0E-12    |
| 301 | 3.27         | 13.3E-9     | 25.2E-9      | 848.8E-3   | 135.3E-3      | 17.96        | -360.0E-12   |
| 302 | 3.28         | 11.5E-9     | 27.2E-9      | 847.2E-3   | 135.8E-3      | 18.00        | -520.0E-12   |
| 303 | 3.24         | 13.3E-9     | 26.8E-9      | 846.8E-3   | 135.4E-3      | 18.12        | -40.0E-12    |
| 304 | 3.25         | 12.3E-9     | 26.8E-9      | 846.8E-3   | 135.7E-3      | 18.06        | 9.8E-9       |
| 305 | 3.19         | 15.4E-9     | 26.4E-9      | 846.8E-3   | 136.0E-3      | 18.22        | -560.0E-12   |
| 306 | 3.24         | 13.3E-9     | 25.6E-9      | 846.4E-3   | 135.4E-3      | 18.12        | 4.5E-9       |
| 307 | 3.21         | 13.6E-9     | 23.6E-9      | 846.0E-3   | 134.2E-3      | 18.19        | 14.4E-9      |
| 308 | 3.22         | 13.8E-9     | 26.0E-9      | 846.4E-3   | 134.9E-3      | 18.14        | 80.0E-12     |
| 309 | 3.21         | 12.3E-9     | 25.2E-9      | 846.0E-3   | 133.7E-3      | 18.19        | -1.0E-9      |
| 310 | 3.20         | 12.3E-9     | 26.8E-9      | 845.2E-3   | 135.3E-3      | 18.18        | -3.4E-9      |
| 311 | 3.22         | 14.9E-9     | 26.0E-9      | 847.6E-3   | 136.6E-3      | 18.10        | 3.0E-9       |
| 312 | 3.23         | 13.3E-9     | 24.0E-9      | 846.0E-3   | 136.7E-3      | 18.12        | 2.5E-9       |
| 313 | 3.22         | 15.4E-9     | 24.4E-9      | 846.4E-3   | 134.9E-3      | 18.11        | 80.0E-12     |
| 314 | 3.22         | 14.3E-9     | 25.6E-9      | 845.6E-3   | 136.1E-3      | 18.12        | 40.0E-12     |
| 315 | 3.17         | 16.4E-9     | 26.0E-9      | 846.0E-3   | 137.0E-3      | 18.22        | -440.0E-12   |
| 316 | 3.22         | 14.6E-9     | 26.8E-9      | 846.0E-3   | 135.1E-3      | 18.20        | 440.0E-12    |
| 317 | 3.22         | 16.9E-9     | 27.2E-9      | 845.2E-3   | 133.8E-3      | 18.18        | -480.0E-12   |

| 500Hr End Points |             |              |            |               |              |              |
|------------------|-------------|--------------|------------|---------------|--------------|--------------|
| VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS ON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.20             | 19.8E-9     | 32.2E-9      | 845.1E-3   | 133.3E-3      | 18.32        | 63.5E-12     |
| 3.23             | 13.4E-9     | 30.1E-9      | 843.1E-3   | 133.7E-3      | 18.27        | 1.3E-9       |
| 3.22             | 16.3E-9     | 28.3E-9      | 845.4E-3   | 138.0E-3      | 17.99        | 306.3E-12    |
| 3.20             | 15.2E-9     | 27.7E-9      | 845.1E-3   | 136.4E-3      | 18.02        | -6.4E-9      |
| 3.20             | 11.1E-9     | 31.4E-9      | 845.0E-3   | 136.0E-3      | 18.04        | 133.1E-12    |
| 3.20             | 13.7E-9     | 25.9E-9      | 844.5E-3   | 138.1E-3      | 17.95        | 920.4E-12    |
| 3.26             | 11.8E-9     | 27.5E-9      | 846.5E-3   | 136.6E-3      | 17.95        | 435.6E-12    |
| 3.26             | 12.5E-9     | 28.8E-9      | 846.3E-3   | 137.0E-3      | 17.92        | -18.8E-12    |
| 3.31             | 10.0E-9     | 27.3E-9      | 846.3E-3   | 135.5E-3      | 17.97        | 804.2E-12    |
| 3.32             | 12.1E-9     | 28.5E-9      | 846.3E-3   | 137.5E-3      | 17.93        | 897.2E-12    |
| 3.24             | 14.7E-9     | 28.0E-9      | 846.7E-3   | 136.5E-3      | 17.90        | 225.7E-12    |
| 3.25             | 12.9E-9     | 29.5E-9      | 846.5E-3   | 137.0E-3      | 17.97        | 51.9E-12     |
| 3.24             | 15.1E-9     | 27.8E-9      | 844.5E-3   | 136.6E-3      | 18.08        | 558.7E-12    |
| 3.22             | 13.8E-9     | 29.2E-9      | 843.9E-3   | 136.2E-3      | 18.05        | 10.8E-9      |
| 3.18             | 16.7E-9     | 28.6E-9      | 844.2E-3   | 136.2E-3      | 18.18        | 20.3E-12     |
| 3.21             | 15.2E-9     | 26.6E-9      | 845.9E-3   | 136.3E-3      | 18.11        | 5.4E-9       |
| 3.20             | 14.3E-9     | 25.2E-9      | 843.3E-3   | 134.9E-3      | 18.15        | 15.5E-9      |
| 3.20             | 15.2E-9     | 28.1E-9      | 844.0E-3   | 135.8E-3      | 18.08        | 687.4E-12    |
| 3.21             | 13.1E-9     | 28.2E-9      | 844.8E-3   | 133.7E-3      | 18.12        | -482.4E-12   |
| 3.18             | 14.0E-9     | 28.9E-9      | 844.7E-3   | 135.7E-3      | 18.11        | -3.0E-9      |
| 3.22             | 15.5E-9     | 27.5E-9      | 845.7E-3   | 137.0E-3      | 18.04        | 3.7E-9       |
| 3.21             | 14.0E-9     | 26.4E-9      | 843.5E-3   | 137.8E-3      | 18.07        | 3.2E-9       |
| 3.19             | 16.1E-9     | 26.4E-9      | 843.6E-3   | 135.9E-3      | 18.10        | 687.4E-12    |
| 3.22             | 15.5E-9     | 26.5E-9      | 845.0E-3   | 136.7E-3      | 18.12        | 641.7E-12    |
| 3.14             | 17.8E-9     | 27.6E-9      | 845.1E-3   | 137.9E-3      | 18.21        | 156.8E-12    |
| 3.21             | 15.7E-9     | 29.5E-9      | 845.7E-3   | 135.5E-3      | 18.14        | 1.1E-9       |
| 3.19             | 18.2E-9     | 29.4E-9      | 843.3E-3   | 134.6E-3      | 18.12        | 113.1E-12    |

**Steady State Reverse Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 520V, 150°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 561 | 3.37         | 19.7E-9     | 18.8E-9      | 845.6E-3   | 134.2E-3     | 17.92        | -1.3E-9      | 3.35             | 21.1E-9     | 20.8E-9      | 844.2E-3   | 135.1E-3     | 17.86        | -806.6E-12   |
| 562 | 3.38         | 20.5E-9     | 17.6E-9      | 847.2E-3   | 132.4E-3     | 17.90        | 280.0E-12    | 3.37             | 22.0E-9     | 18.5E-9      | 845.9E-3   | 132.6E-3     | 17.88        | 889.1E-12    |
| 563 | 3.37         | 21.5E-9     | 16.8E-9      | 847.2E-3   | 132.0E-3     | 17.96        | -960.0E-12   | 3.37             | 23.2E-9     | 17.7E-9      | 845.3E-3   | 132.3E-3     | 17.89        | -378.1E-12   |
| 564 | 3.39         | 20.5E-9     | 16.4E-9      | 847.6E-3   | 131.3E-3     | 17.95        | -840.0E-12   | 3.36             | 23.0E-9     | 17.9E-9      | 845.4E-3   | 132.6E-3     | 17.90        | -264.4E-12   |
| 565 | 3.39         | 20.5E-9     | 18.4E-9      | 847.6E-3   | 131.4E-3     | 17.96        | -240.0E-12   | 3.39             | 22.4E-9     | 19.8E-9      | 844.7E-3   | 132.1E-3     | 17.92        | 353.6E-12    |
| 566 | 3.43         | 18.4E-9     | 18.8E-9      | 849.6E-3   | 131.3E-3     | 17.96        | -920.0E-12   | 3.40             | 20.6E-9     | 20.8E-9      | 849.2E-3   | 132.5E-3     | 17.96        | -330.8E-12   |
| 567 | 3.40         | 20.5E-9     | 18.4E-9      | 849.2E-3   | 132.2E-3     | 17.96        | -680.0E-12   | 3.39             | 22.4E-9     | 20.3E-9      | 848.8E-3   | 132.4E-3     | 17.90        | -128.5E-12   |
| 568 | 3.46         | 16.4E-9     | 20.4E-9      | 848.8E-3   | 131.1E-3     | 17.99        | -640.0E-12   | 3.46             | 18.4E-9     | 23.0E-9      | 847.6E-3   | 131.3E-3     | 17.97        | -65.7E-12    |
| 569 | 3.44         | 20.5E-9     | 18.0E-9      | 847.6E-3   | 130.8E-3     | 17.88        | -1.2E-9      | 3.43             | 21.1E-9     | 20.2E-9      | 847.5E-3   | 131.8E-3     | 17.84        | -578.4E-12   |
| 570 | 3.50         | 16.4E-9     | 20.4E-9      | 848.4E-3   | 129.9E-3     | 18.30        | -680.0E-12   | 3.48             | 18.0E-9     | 21.2E-9      | 846.6E-3   | 130.7E-3     | 18.29        | -118.8E-12   |
| 571 | 3.38         | 18.9E-9     | 16.8E-9      | 847.6E-3   | 132.9E-3     | 17.90        | -800.0E-12   | 3.36             | 20.6E-9     | 18.1E-9      | 844.6E-3   | 134.1E-3     | 17.87        | -261.0E-12   |
| 572 | 3.47         | 16.9E-9     | 18.0E-9      | 848.8E-3   | 130.4E-3     | 18.05        | -960.0E-12   | 3.43             | 18.0E-9     | 19.1E-9      | 846.3E-3   | 131.3E-3     | 18.04        | -402.7E-12   |
| 573 | 3.41         | 20.5E-9     | 18.0E-9      | 847.2E-3   | 131.9E-3     | 18.08        | -160.0E-12   | 3.40             | 23.0E-9     | 19.9E-9      | 845.1E-3   | 132.5E-3     | 18.06        | 439.3E-12    |
| 574 | 3.39         | 19.5E-9     | 18.0E-9      | 851.2E-3   | 133.1E-3     | 17.87        | -40.0E-12    | 3.38             | 20.3E-9     | 20.2E-9      | 850.5E-3   | 133.4E-3     | 17.86        | 556.5E-12    |
| 575 | 3.45         | 19.5E-9     | 18.8E-9      | 850.4E-3   | 130.1E-3     | 17.95        | -1.2E-9      | 3.43             | 21.2E-9     | 20.7E-9      | 849.1E-3   | 130.2E-3     | 17.89        | -669.0E-12   |
| 576 | 3.40         | 20.5E-9     | 17.2E-9      | 848.4E-3   | 131.4E-3     | 18.01        | -440.0E-12   | 3.37             | 22.4E-9     | 19.5E-9      | 846.3E-3   | 132.0E-3     | 17.98        | 154.3E-12    |
| 577 | 3.39         | 20.5E-9     | 16.8E-9      | 848.8E-3   | 132.2E-3     | 17.95        | -1.0E-9      | 3.39             | 21.4E-9     | 18.5E-9      | 847.2E-3   | 132.3E-3     | 17.93        | -413.2E-12   |
| 578 | 3.39         | 22.0E-9     | 17.2E-9      | 850.8E-3   | 132.6E-3     | 17.96        | -800.0E-12   | 3.37             | 23.8E-9     | 18.3E-9      | 850.2E-3   | 133.2E-3     | 17.90        | -216.0E-12   |
| 579 | 3.39         | 21.5E-9     | 17.2E-9      | 848.0E-3   | 132.1E-3     | 17.99        | -1.8E-9      | 3.36             | 23.5E-9     | 18.5E-9      | 845.6E-3   | 132.7E-3     | 17.96        | -1.2E-9      |
| 580 | 3.39         | 20.5E-9     | 16.8E-9      | 850.0E-3   | 131.7E-3     | 17.81        | -1.0E-9      | 3.38             | 22.9E-9     | 18.8E-9      | 849.4E-3   | 132.4E-3     | 17.74        | -518.2E-12   |
| 581 | 3.38         | 23.6E-9     | 16.4E-9      | 852.8E-3   | 132.8E-3     | 17.87        | -1.2E-9      | 3.37             | 26.2E-9     | 18.6E-9      | 851.6E-3   | 133.9E-3     | 17.82        | -667.8E-12   |
| 582 | 3.37         | 22.5E-9     | 18.8E-9      | 852.8E-3   | 133.5E-3     | 17.88        | -920.0E-12   | 3.36             | 24.6E-9     | 20.5E-9      | 851.1E-3   | 134.1E-3     | 17.87        | -375.9E-12   |
| 583 | 3.37         | 24.6E-9     | 19.2E-9      | 850.4E-3   | 134.3E-3     | 17.90        | -1.0E-9      | 3.36             | 27.0E-9     | 20.3E-9      | 850.1E-3   | 135.3E-3     | 17.90        | -472.2E-12   |
| 584 | 3.38         | 24.6E-9     | 20.8E-9      | 856.0E-3   | 133.0E-3     | 17.80        | -1.0E-9      | 3.35             | 27.1E-9     | 22.4E-9      | 854.0E-3   | 133.8E-3     | 17.77        | -496.9E-12   |
| 585 | 3.38         | 24.6E-9     | 17.2E-9      | 850.8E-3   | 134.2E-3     | 17.90        | -2.6E-9      | 3.35             | 26.4E-9     | 18.6E-9      | 848.6E-3   | 134.9E-3     | 17.88        | -2.1E-9      |

**Steady State Reverse Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 520V, 150°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 586 | 3.37         | 22.5E-9     | 18.0E-9      | 850.8E-3   | 133.8E-3     | 17.93        | -1.2E-9      | 3.35             | 23.8E-9     | 19.5E-9      | 848.7E-3   | 134.1E-3     | 17.87        | -610.4E-12   |
| 587 | 3.38         | 23.0E-9     | 17.6E-9      | 850.8E-3   | 135.9E-3     | 17.88        | -920.0E-12   | 3.34             | 25.8E-9     | 19.8E-9      | 848.8E-3   | 136.8E-3     | 17.84        | -390.5E-12   |
| 588 | 3.37         | 24.6E-9     | 16.8E-9      | 851.2E-3   | 136.0E-3     | 17.93        | 120.0E-12    | 3.34             | 27.0E-9     | 18.3E-9      | 849.0E-3   | 136.9E-3     | 17.88        | 731.4E-12    |
| 589 | 3.37         | 20.5E-9     | 16.8E-9      | 853.6E-3   | 139.0E-3     | 17.92        | -640.0E-12   | 3.34             | 21.8E-9     | 17.5E-9      | 852.9E-3   | 140.2E-3     | 17.86        | -58.6E-12    |
| 590 | 3.37         | 27.1E-9     | 18.4E-9      | 851.2E-3   | 137.9E-3     | 17.88        | -1.0E-9      | 3.36             | 30.1E-9     | 20.8E-9      | 850.0E-3   | 138.3E-3     | 17.82        | -512.7E-12   |
| 591 | 3.45         | 20.5E-9     | 15.6E-9      | 851.6E-3   | 136.7E-3     | 18.05        | -1.0E-9      | 3.45             | 21.9E-9     | 16.4E-9      | 850.1E-3   | 137.8E-3     | 17.98        | -487.7E-12   |
| 592 | 3.47         | 14.3E-9     | 18.0E-9      | 855.2E-3   | 134.2E-3     | 17.80        | -960.0E-12   | 3.47             | 15.2E-9     | 20.3E-9      | 853.2E-3   | 135.0E-3     | 17.74        | -450.6E-12   |
| 593 | 3.47         | 13.3E-9     | 18.4E-9      | 856.0E-3   | 134.6E-3     | 17.86        | -720.0E-12   | 3.45             | 14.8E-9     | 19.9E-9      | 853.7E-3   | 134.7E-3     | 17.80        | -176.8E-12   |
| 594 | 3.49         | 14.3E-9     | 19.2E-9      | 853.2E-3   | 132.9E-3     | 17.65        | -760.0E-12   | 3.48             | 15.8E-9     | 20.8E-9      | 850.5E-3   | 133.7E-3     | 17.61        | -204.9E-12   |
| 595 | 3.48         | 14.3E-9     | 20.0E-9      | 858.4E-3   | 134.4E-3     | 17.71        | -840.0E-12   | 3.46             | 15.0E-9     | 22.5E-9      | 855.9E-3   | 134.9E-3     | 17.66        | -294.4E-12   |
| 596 | 3.51         | 12.3E-9     | 19.2E-9      | 857.2E-3   | 131.9E-3     | 17.68        | -600.0E-12   | 3.50             | 13.1E-9     | 21.7E-9      | 854.7E-3   | 132.8E-3     | 17.65        | -50.0E-12    |
| 597 | 3.50         | 12.3E-9     | 19.2E-9      | 853.2E-3   | 131.8E-3     | 17.65        | -160.0E-12   | 3.48             | 14.0E-9     | 21.3E-9      | 853.1E-3   | 131.9E-3     | 17.61        | 437.4E-12    |
| 598 | 3.52         | 15.4E-9     | 20.4E-9      | 853.6E-3   | 130.8E-3     | 17.62        | -600.0E-12   | 3.50             | 16.2E-9     | 22.3E-9      | 851.2E-3   | 130.9E-3     | 17.58        | -37.0E-12    |
| 599 | 3.52         | 12.3E-9     | 23.2E-9      | 853.6E-3   | 131.3E-3     | 17.68        | -80.0E-12    | 3.50             | 13.2E-9     | 26.0E-9      | 852.9E-3   | 131.8E-3     | 17.62        | 519.4E-12    |
| 600 | 3.48         | 15.4E-9     | 20.4E-9      | 853.2E-3   | 133.1E-3     | 17.71        | -800.0E-12   | 3.46             | 16.9E-9     | 21.1E-9      | 850.2E-3   | 134.2E-3     | 17.65        | -229.3E-12   |
| 601 | 3.50         | 14.3E-9     | 20.0E-9      | 853.2E-3   | 131.3E-3     | 17.59        | -520.0E-12   | 3.50             | 16.3E-9     | 22.2E-9      | 851.2E-3   | 131.8E-3     | 17.55        | 29.1E-12     |
| 602 | 3.46         | 16.4E-9     | 18.0E-9      | 854.8E-3   | 133.1E-3     | 17.63        | -1.2E-9      | 3.44             | 18.3E-9     | 19.1E-9      | 854.6E-3   | 133.4E-3     | 17.56        | -659.5E-12   |
| 603 | 3.47         | 12.3E-9     | 18.8E-9      | 856.0E-3   | 132.6E-3     | 17.59        | -640.0E-12   | 3.47             | 13.8E-9     | 20.6E-9      | 853.8E-3   | 132.6E-3     | 17.58        | -40.4E-12    |
| 604 | 3.45         | 14.9E-9     | 19.2E-9      | 856.4E-3   | 134.2E-3     | 17.65        | -640.0E-12   | 3.44             | 16.1E-9     | 20.2E-9      | 855.2E-3   | 135.1E-3     | 17.61        | -78.7E-12    |
| 605 | 3.45         | 14.3E-9     | 19.6E-9      | 853.6E-3   | 134.4E-3     | 17.78        | -640.0E-12   | 3.42             | 15.3E-9     | 20.8E-9      | 851.1E-3   | 135.6E-3     | 17.75        | -96.1E-12    |
| 606 | 3.44         | 13.3E-9     | 18.0E-9      | 857.2E-3   | 135.4E-3     | 17.81        | -1.6E-9      | 3.44             | 14.1E-9     | 18.9E-9      | 854.7E-3   | 135.5E-3     | 17.73        | -1.2E-9      |
| 607 | 3.45         | 13.3E-9     | 17.6E-9      | 855.2E-3   | 134.5E-3     | 17.78        | -1.2E-9      | 3.43             | 15.2E-9     | 18.4E-9      | 852.8E-3   | 135.5E-3     | 17.78        | -644.3E-12   |
| 608 | 3.44         | 13.8E-9     | 18.0E-9      | 854.8E-3   | 135.1E-3     | 18.01        | -640.0E-12   | 3.42             | 15.6E-9     | 19.1E-9      | 852.3E-3   | 135.5E-3     | 17.96        | -56.5E-12    |
| 609 | 3.44         | 14.9E-9     | 18.0E-9      | 854.0E-3   | 134.6E-3     | 17.95        | -800.0E-12   | 3.42             | 16.9E-9     | 20.3E-9      | 854.0E-3   | 135.4E-3     | 17.94        | -210.9E-12   |
| 610 | 3.47         | 19.5E-9     | 18.4E-9      | 855.2E-3   | 131.6E-3     | 17.68        | -1.1E-9      | 3.44             | 21.6E-9     | 20.2E-9      | 852.4E-3   | 132.6E-3     | 17.62        | -547.3E-12   |



**Steady State Reverse Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 520V, 150°C**  
**Lot 6608**

| SN  | Initials     |             |              |            |               |              |              |
|-----|--------------|-------------|--------------|------------|---------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS ON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 611 | 3.45         | 18.9E-9     | 18.0E-9      | 856.4E-3   | 132.6E-3      | 17.72        | -880.0E-12   |
| 612 | 3.46         | 20.5E-9     | 18.4E-9      | 856.4E-3   | 134.0E-3      | 17.84        | -1.1E-9      |
| 613 | 3.46         | 20.7E-9     | 18.8E-9      | 857.6E-3   | 133.0E-3      | 17.82        | -680.0E-12   |
| 614 | 3.46         | 19.5E-9     | 18.4E-9      | 854.4E-3   | 134.2E-3      | 17.89        | -720.0E-12   |
| 615 | 3.46         | 21.0E-9     | 21.2E-9      | 857.2E-3   | 133.9E-3      | 17.95        | -1.0E-9      |
| 616 | 3.46         | 20.5E-9     | 18.0E-9      | 857.2E-3   | 136.1E-3      | 17.92        | -1.1E-9      |
| 617 | 3.46         | 20.5E-9     | 18.0E-9      | 857.2E-3   | 134.7E-3      | 17.87        | -480.0E-12   |
| 618 | 3.46         | 18.4E-9     | 18.4E-9      | 856.0E-3   | 136.8E-3      | 17.93        | -640.0E-12   |
| 619 | 3.47         | 19.5E-9     | 17.2E-9      | 858.0E-3   | 137.5E-3      | 17.93        | -1.2E-9      |
| 620 | 3.49         | 16.9E-9     | 18.8E-9      | 854.8E-3   | 137.8E-3      | 17.93        | -680.0E-12   |
| 621 | 3.48         | 18.4E-9     | 16.8E-9      | 858.0E-3   | 136.8E-3      | 17.89        | -680.0E-12   |
| 622 | 3.51         | 16.9E-9     | 18.4E-9      | 857.6E-3   | 136.8E-3      | 17.87        | -640.0E-12   |
| 623 | 3.50         | 15.4E-9     | 19.2E-9      | 858.4E-3   | 137.3E-3      | 17.92        | -320.0E-12   |
| 624 | 3.55         | 13.6E-9     | 18.8E-9      | 856.8E-3   | 137.4E-3      | 18.08        | -480.0E-12   |
| 625 | 3.53         | 16.9E-9     | 20.0E-9      | 854.0E-3   | 136.8E-3      | 17.90        | -680.0E-12   |
| 626 | 3.52         | 14.3E-9     | 20.4E-9      | 856.4E-3   | 138.7E-3      | 18.08        | -520.0E-12   |
| 627 | 3.54         | 12.5E-9     | 19.6E-9      | 856.8E-3   | 137.2E-3      | 18.13        | -960.0E-12   |
| 628 | 3.39         | 16.4E-9     | 19.2E-9      | 852.8E-3   | 136.1E-3      | 17.96        | -1.0E-9      |
| 629 | 3.54         | 12.5E-9     | 18.0E-9      | 856.0E-3   | 130.5E-3      | 17.74        | -520.0E-12   |
| 630 | 3.39         | 20.5E-9     | 17.2E-9      | 849.2E-3   | 134.0E-3      | 17.87        | -920.0E-12   |
| 631 | 3.40         | 21.5E-9     | 18.0E-9      | 855.6E-3   | 134.5E-3      | 17.84        | -880.0E-12   |
| 632 | 3.41         | 19.5E-9     | 15.6E-9      | 856.8E-3   | 133.2E-3      | 17.83        | -480.0E-12   |
| 633 | 3.39         | 20.0E-9     | 18.0E-9      | 855.2E-3   | 133.8E-3      | 17.76        | -880.0E-12   |
| 634 | 3.42         | 18.4E-9     | 18.0E-9      | 856.8E-3   | 133.7E-3      | 17.76        | -1.1E-9      |
| 635 | 3.38         | 20.5E-9     | 236.8E-9     | 852.8E-3   | 134.3E-3      | 17.83        | -1.2E-9      |
| 636 | 3.43         | 18.4E-9     | 18.8E-9      | 853.6E-3   | 133.3E-3      | 17.80        | -720.0E-12   |
| 637 | 3.42         | 16.6E-9     | 17.2E-9      | 857.6E-3   | 133.5E-3      | 17.78        | -1.1E-9      |

| 500Hr End Points |             |              |            |               |              |              |
|------------------|-------------|--------------|------------|---------------|--------------|--------------|
| VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDS ON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.43             | 21.4E-9     | 19.6E-9      | 853.9E-3   | 133.6E-3      | 17.71        | -365.6E-12   |
| 3.44             | 23.1E-9     | 19.5E-9      | 853.7E-3   | 134.1E-3      | 17.80        | -602.4E-12   |
| 3.44             | 22.3E-9     | 20.3E-9      | 854.8E-3   | 134.0E-3      | 17.81        | -84.3E-12    |
| 3.44             | 20.2E-9     | 20.3E-9      | 853.5E-3   | 134.9E-3      | 17.84        | -185.2E-12   |
| 3.44             | 22.4E-9     | 23.1E-9      | 857.1E-3   | 134.3E-3      | 17.94        | -469.8E-12   |
| 3.44             | 22.2E-9     | 19.3E-9      | 854.2E-3   | 136.2E-3      | 17.88        | -501.4E-12   |
| 3.45             | 21.1E-9     | 20.3E-9      | 857.2E-3   | 134.8E-3      | 17.86        | 81.7E-12     |
| 3.45             | 20.7E-9     | 19.3E-9      | 854.1E-3   | 137.5E-3      | 17.89        | -93.3E-12    |
| 3.45             | 21.9E-9     | 18.7E-9      | 855.2E-3   | 138.7E-3      | 17.89        | -712.4E-12   |
| 3.48             | 18.2E-9     | 20.2E-9      | 853.2E-3   | 137.8E-3      | 17.93        | -119.7E-12   |
| 3.46             | 20.2E-9     | 17.8E-9      | 856.6E-3   | 137.6E-3      | 17.88        | -127.1E-12   |
| 3.51             | 17.6E-9     | 20.4E-9      | 855.0E-3   | 137.7E-3      | 17.83        | -78.1E-12    |
| 3.47             | 16.2E-9     | 21.2E-9      | 856.4E-3   | 137.4E-3      | 17.89        | 249.4E-12    |
| 3.53             | 14.7E-9     | 20.5E-9      | 855.2E-3   | 138.6E-3      | 18.04        | 117.4E-12    |
| 3.50             | 18.6E-9     | 22.0E-9      | 853.0E-3   | 137.4E-3      | 17.84        | -85.2E-12    |
| 3.51             | 15.4E-9     | 21.5E-9      | 854.7E-3   | 138.8E-3      | 18.03        | 33.7E-12     |
| 3.52             | 13.3E-9     | 21.9E-9      | 855.4E-3   | 137.4E-3      | 18.10        | -435.6E-12   |
| 3.37             | 17.4E-9     | 21.1E-9      | 851.4E-3   | 136.7E-3      | 17.91        | -494.7E-12   |
| 3.52             | 13.9E-9     | 18.9E-9      | 853.3E-3   | 130.7E-3      | 17.70        | 70.8E-12     |
| 3.36             | 23.0E-9     | 18.9E-9      | 846.7E-3   | 134.4E-3      | 17.81        | -347.7E-12   |
| 3.40             | 23.3E-9     | 19.6E-9      | 855.2E-3   | 135.4E-3      | 17.82        | -323.6E-12   |
| 3.39             | 21.1E-9     | 16.8E-9      | 853.8E-3   | 134.2E-3      | 17.80        | 78.3E-12     |
| 3.36             | 21.3E-9     | 20.1E-9      | 853.9E-3   | 134.6E-3      | 17.75        | -348.3E-12   |
| 3.41             | 20.5E-9     | 18.8E-9      | 856.1E-3   | 134.9E-3      | 17.76        | -573.5E-12   |
| 3.36             | 22.2E-9     | 245.9E-9     | 852.7E-3   | 135.1E-3      | 17.77        | -589.3E-12   |
| 3.42             | 20.8E-9     | 20.4E-9      | 851.5E-3   | 134.0E-3      | 17.79        | -168.4E-12   |
| 3.40             | 18.2E-9     | 19.1E-9      | 857.3E-3   | 133.8E-3      | 17.73        | -614.7E-12   |

**Steady State Reverse Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 520V, 150°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 881 | 3.23         | 11.8E-9     | 20.8E-9      | 847.2E-3   | 129.5E-3     | 18.42        | -6.5E-9      | 3.20             | 13.4E-9     | 22.7E-9      | 846.5E-3   | 130.1E-3     | 18.41        | -6.0E-9      |
| 882 | 3.21         | 20.5E-9     | 24.4E-9      | 855.2E-3   | 126.2E-3     | 18.35        | -6.5E-9      | 3.19             | 21.1E-9     | 26.5E-9      | 853.8E-3   | 127.4E-3     | 18.31        | -5.9E-9      |
| 883 | 3.21         | 19.5E-9     | 18.0E-9      | 850.0E-3   | 126.8E-3     | 18.23        | -6.7E-9      | 3.20             | 20.6E-9     | 18.7E-9      | 849.4E-3   | 127.8E-3     | 18.22        | -6.6E-9      |
| 884 | 3.27         | 14.9E-9     | 21.6E-9      | 856.8E-3   | 126.3E-3     | 18.29        | -6.9E-9      | 3.25             | 16.4E-9     | 23.1E-9      | 855.9E-3   | 126.3E-3     | 18.25        | -6.8E-9      |
| 885 | 3.25         | 16.4E-9     | 17.2E-9      | 857.2E-3   | 126.3E-3     | 18.01        | -5.9E-9      | 3.24             | 17.8E-9     | 19.0E-9      | 854.7E-3   | 126.7E-3     | 17.96        | -5.6E-9      |
| 886 | 3.18         | 14.3E-9     | 42.4E-9      | 852.0E-3   | 123.2E-3     | 18.46        | -6.7E-9      | 3.16             | 15.7E-9     | 46.6E-9      | 849.4E-3   | 123.8E-3     | 18.41        | -6.2E-9      |
| 887 | 3.19         | 16.4E-9     | 44.0E-9      | 850.8E-3   | 122.2E-3     | 18.44        | -7.4E-9      | 3.16             | 17.8E-9     | 46.1E-9      | 847.8E-3   | 122.7E-3     | 18.37        | -7.1E-9      |
| 888 | 3.15         | 14.9E-9     | 38.8E-9      | 854.0E-3   | 123.8E-3     | 18.64        | -7.1E-9      | 3.14             | 16.0E-9     | 41.6E-9      | 853.2E-3   | 124.3E-3     | 18.57        | -7.1E-9      |
| 889 | 3.21         | 12.8E-9     | 20.0E-9      | 846.8E-3   | 131.4E-3     | 18.49        | -7.7E-9      | 3.20             | 14.2E-9     | 21.3E-9      | 845.2E-3   | 131.5E-3     | 18.48        | -7.4E-9      |
| 890 | 3.28         | 12.8E-9     | 19.6E-9      | 855.2E-3   | 124.3E-3     | 18.36        | -5.7E-9      | 3.26             | 14.7E-9     | 21.0E-9      | 854.8E-3   | 124.4E-3     | 18.31        | -5.1E-9      |
| 891 | 3.28         | 13.3E-9     | 21.6E-9      | 856.0E-3   | 124.2E-3     | 18.37        | -6.0E-9      | 3.27             | 14.2E-9     | 23.7E-9      | 855.6E-3   | 125.3E-3     | 18.30        | -5.6E-9      |
| 892 | 3.29         | 12.3E-9     | 20.4E-9      | 857.6E-3   | 125.4E-3     | 18.24        | -5.7E-9      | 3.28             | 13.6E-9     | 21.8E-9      | 856.3E-3   | 126.3E-3     | 18.18        | -5.5E-9      |
| 893 | 3.32         | 13.8E-9     | 19.6E-9      | 855.6E-3   | 124.0E-3     | 18.37        | -5.9E-9      | 3.30             | 14.8E-9     | 21.9E-9      | 854.3E-3   | 124.1E-3     | 18.33        | -5.4E-9      |
| 894 | 3.31         | 12.8E-9     | 21.6E-9      | 856.0E-3   | 125.6E-3     | 18.20        | -6.3E-9      | 3.30             | 13.7E-9     | 22.6E-9      | 854.0E-3   | 126.5E-3     | 18.15        | -6.3E-9      |
| 895 | 3.29         | 12.8E-9     | 22.8E-9      | 851.2E-3   | 125.2E-3     | 18.28        | -6.5E-9      | 3.28             | 13.6E-9     | 25.1E-9      | 850.3E-3   | 125.4E-3     | 18.26        | -6.3E-9      |
| 896 | 3.26         | 15.4E-9     | 21.2E-9      | 849.6E-3   | 125.8E-3     | 18.36        | -6.4E-9      | 3.24             | 17.3E-9     | 22.6E-9      | 848.9E-3   | 125.9E-3     | 18.35        | -6.2E-9      |
| 897 | 3.26         | 17.4E-9     | 21.2E-9      | 855.6E-3   | 124.1E-3     | 18.24        | -6.1E-9      | 3.24             | 19.3E-9     | 23.3E-9      | 854.9E-3   | 125.2E-3     | 18.21        | -5.9E-9      |
| 898 | 3.23         | 13.3E-9     | 24.0E-9      | 852.0E-3   | 121.7E-3     | 18.26        | -6.5E-9      | 3.20             | 15.0E-9     | 25.6E-9      | 850.2E-3   | 122.1E-3     | 18.19        | -6.1E-9      |
| 899 | 3.23         | 12.8E-9     | 22.8E-9      | 854.8E-3   | 123.9E-3     | 18.20        | -6.0E-9      | 3.21             | 13.6E-9     | 23.7E-9      | 854.6E-3   | 124.1E-3     | 18.20        | -5.6E-9      |
| 900 | 3.22         | 12.3E-9     | 26.8E-9      | 849.6E-3   | 121.9E-3     | 18.38        | -7.0E-9      | 3.19             | 13.6E-9     | 27.7E-9      | 847.3E-3   | 122.3E-3     | 18.35        | -6.9E-9      |
| 901 | 3.21         | 14.9E-9     | 26.4E-9      | 854.0E-3   | 123.5E-3     | 18.32        | -6.3E-9      | 3.21             | 16.4E-9     | 27.1E-9      | 853.1E-3   | 124.6E-3     | 18.30        | -5.9E-9      |
| 902 | 3.15         | 12.8E-9     | 27.6E-9      | 856.0E-3   | 119.5E-3     | 18.59        | -7.4E-9      | 3.12             | 13.8E-9     | 30.1E-9      | 854.3E-3   | 120.7E-3     | 18.55        | -7.5E-9      |
| 903 | 3.22         | 11.3E-9     | 21.2E-9      | 854.8E-3   | 128.3E-3     | 18.24        | -6.5E-9      | 3.20             | 12.3E-9     | 23.0E-9      | 852.9E-3   | 128.6E-3     | 18.20        | -6.5E-9      |
| 904 | 3.15         | 16.4E-9     | 27.2E-9      | 855.6E-3   | 120.7E-3     | 18.67        | -7.1E-9      | 3.13             | 18.0E-9     | 30.2E-9      | 853.7E-3   | 120.8E-3     | 18.64        | -6.9E-9      |
| 905 | 3.15         | 14.3E-9     | 28.0E-9      | 857.2E-3   | 119.7E-3     | 18.59        | -7.4E-9      | 3.15             | 15.4E-9     | 30.8E-9      | 855.7E-3   | 119.7E-3     | 18.52        | -7.2E-9      |

**Steady State Reverse Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 520V, 150°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |             |              |              | 500Hr End Points |             |              |            |             |              |              |
|-----|--------------|-------------|--------------|------------|-------------|--------------|--------------|------------------|-------------|--------------|------------|-------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSN<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSN<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 906 | 3.14         | 15.4E-9     | 25.2E-9      | 850.4E-3   | 127.8E-3    | 18.65        | -7.8E-9      | 3.13             | 16.0E-9     | 27.2E-9      | 849.6E-3   | 128.0E-3    | 18.58        | -7.5E-9      |
| 907 | 3.14         | 18.4E-9     | 25.2E-9      | 848.4E-3   | 126.4E-3    | 18.80        | -7.5E-9      | 3.11             | 20.2E-9     | 28.3E-9      | 847.3E-3   | 127.0E-3    | 18.73        | -7.2E-9      |
| 908 | 3.18         | 17.9E-9     | 23.6E-9      | 852.8E-3   | 128.1E-3    | 18.62        | -8.0E-9      | 3.15             | 18.7E-9     | 25.4E-9      | 850.3E-3   | 129.1E-3    | 18.57        | -8.2E-9      |
| 909 | 3.25         | 12.8E-9     | 23.2E-9      | 852.0E-3   | 120.3E-3    | 18.20        | -7.7E-9      | 3.24             | 13.6E-9     | 24.7E-9      | 850.1E-3   | 121.4E-3    | 18.16        | -7.6E-9      |
| 910 | 3.21         | 18.4E-9     | 24.8E-9      | 852.8E-3   | 127.8E-3    | 18.49        | -7.0E-9      | 3.20             | 20.9E-9     | 25.6E-9      | 849.8E-3   | 129.0E-3    | 18.45        | -6.9E-9      |
| 911 | 3.20         | 15.4E-9     | 26.8E-9      | 846.4E-3   | 120.5E-3    | 18.48        | -6.4E-9      | 3.19             | 16.4E-9     | 28.0E-9      | 846.1E-3   | 121.1E-3    | 18.46        | -6.1E-9      |
| 912 | 3.15         | 17.9E-9     | 25.2E-9      | 854.0E-3   | 129.5E-3    | 18.68        | -8.0E-9      | 3.12             | 19.2E-9     | 26.4E-9      | 851.7E-3   | 130.7E-3    | 18.64        | -7.5E-9      |
| 913 | 3.17         | 12.8E-9     | 29.6E-9      | 856.8E-3   | 120.6E-3    | 18.30        | -6.7E-9      | 3.15             | 14.6E-9     | 32.0E-9      | 856.6E-3   | 121.8E-3    | 18.29        | -6.2E-9      |
| 914 | 3.14         | 16.4E-9     | 28.4E-9      | 854.4E-3   | 121.0E-3    | 18.54        | -7.9E-9      | 3.12             | 17.6E-9     | 30.6E-9      | 854.2E-3   | 121.2E-3    | 18.52        | -7.7E-9      |
| 915 | 3.22         | 13.3E-9     | 21.2E-9      | 847.6E-3   | 119.7E-3    | 18.41        | -6.9E-9      | 3.21             | 14.3E-9     | 21.9E-9      | 845.7E-3   | 119.9E-3    | 18.34        | -6.7E-9      |
| 916 | 3.19         | 13.3E-9     | 26.4E-9      | 851.2E-3   | 120.7E-3    | 18.36        | -6.6E-9      | 3.17             | 14.2E-9     | 28.7E-9      | 850.3E-3   | 121.3E-3    | 18.33        | -6.5E-9      |
| 917 | 3.17         | 16.4E-9     | 27.2E-9      | 852.8E-3   | 120.0E-3    | 18.34        | -6.2E-9      | 3.15             | 17.7E-9     | 28.2E-9      | 852.0E-3   | 121.2E-3    | 18.27        | -6.2E-9      |
| 918 | 3.15         | 15.4E-9     | 26.8E-9      | 854.4E-3   | 119.8E-3    | 18.53        | -7.8E-9      | 3.15             | 17.4E-9     | 27.5E-9      | 852.6E-3   | 120.1E-3    | 18.52        | -7.7E-9      |
| 919 | 3.24         | 10.2E-9     | 20.8E-9      | 847.2E-3   | 119.4E-3    | 18.36        | -7.4E-9      | 3.24             | 11.4E-9     | 22.7E-9      | 845.2E-3   | 120.6E-3    | 18.35        | -7.0E-9      |
| 920 | 3.13         | 14.6E-9     | 25.2E-9      | 855.2E-3   | 126.7E-3    | 18.67        | -7.6E-9      | 3.11             | 15.9E-9     | 27.7E-9      | 853.8E-3   | 127.3E-3    | 18.61        | -7.1E-9      |
| 921 | 3.14         | 12.3E-9     | 26.4E-9      | 850.8E-3   | 119.9E-3    | 18.62        | -8.2E-9      | 3.12             | 13.5E-9     | 27.6E-9      | 848.3E-3   | 120.9E-3    | 18.57        | -7.9E-9      |
| 922 | 3.16         | 21.0E-9     | 21.6E-9      | 846.8E-3   | 127.7E-3    | 18.68        | -5.9E-9      | 3.15             | 22.5E-9     | 24.0E-9      | 846.3E-3   | 128.3E-3    | 18.63        | -5.7E-9      |
| 923 | 3.12         | 17.4E-9     | 23.2E-9      | 846.0E-3   | 127.5E-3    | 18.72        | -7.8E-9      | 3.10             | 19.7E-9     | 24.1E-9      | 845.4E-3   | 127.7E-3    | 18.66        | -7.2E-9      |
| 924 | 3.20         | 16.4E-9     | 19.6E-9      | 850.8E-3   | 127.2E-3    | 18.55        | -7.0E-9      | 3.20             | 18.6E-9     | 21.7E-9      | 849.6E-3   | 127.3E-3    | 18.55        | -6.4E-9      |
| 925 | 3.17         | 20.5E-9     | 24.4E-9      | 847.6E-3   | 127.4E-3    | 18.59        | -6.4E-9      | 3.15             | 22.9E-9     | 25.9E-9      | 845.5E-3   | 127.8E-3    | 18.54        | -5.8E-9      |
| 926 | 3.18         | 15.4E-9     | 21.6E-9      | 851.6E-3   | 128.0E-3    | 18.54        | -6.5E-9      | 3.15             | 16.4E-9     | 22.3E-9      | 851.3E-3   | 128.9E-3    | 18.50        | -6.1E-9      |
| 927 | 3.13         | 18.4E-9     | 25.2E-9      | 846.8E-3   | 128.2E-3    | 18.71        | -7.6E-9      | 3.11             | 19.7E-9     | 27.1E-9      | 845.4E-3   | 128.6E-3    | 18.64        | -7.3E-9      |
| 928 | 3.14         | 18.4E-9     | 24.0E-9      | 850.0E-3   | 129.2E-3    | 18.54        | -7.0E-9      | 3.13             | 20.3E-9     | 26.7E-9      | 848.1E-3   | 130.1E-3    | 18.48        | -6.4E-9      |
| 929 | 3.15         | 13.3E-9     | 27.6E-9      | 850.8E-3   | 119.5E-3    | 18.58        | -6.8E-9      | 3.12             | 14.6E-9     | 29.9E-9      | 848.5E-3   | 119.7E-3    | 18.53        | -6.3E-9      |
| 930 | 3.15         | 12.8E-9     | 28.0E-9      | 849.2E-3   | 119.7E-3    | 18.52        | -7.2E-9      | 3.14             | 13.9E-9     | 30.6E-9      | 848.6E-3   | 120.5E-3    | 18.50        | -7.3E-9      |

**Steady State Reverse Bias**  
**Mil-Std 750 M 1042-B, 500hrs, VGS= 520V, 150°C**  
**Lot 6700**

| SN  | Initials     |             |              |            |              |              |              | 500Hr End Points |             |              |            |              |              |              |
|-----|--------------|-------------|--------------|------------|--------------|--------------|--------------|------------------|-------------|--------------|------------|--------------|--------------|--------------|
|     | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA     | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSOn<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 931 | 3.25         | 11.8E-9     | 18.8E-9      | 848.0E-3   | 126.0E-3     | 18.35        | -7.0E-9      | 3.22             | 13.2E-9     | 19.5E-9      | 846.2E-3   | 127.2E-3     | 18.29        | -6.6E-9      |
| 932 | 3.17         | 15.4E-9     | 28.0E-9      | 846.8E-3   | 119.4E-3     | 18.54        | -7.3E-9      | 3.16             | 17.3E-9     | 29.3E-9      | 844.8E-3   | 119.8E-3     | 18.53        | -7.0E-9      |
| 933 | 3.18         | 12.8E-9     | 26.0E-9      | 845.6E-3   | 119.8E-3     | 18.41        | -8.3E-9      | 3.18             | 13.7E-9     | 29.0E-9      | 842.8E-3   | 121.0E-3     | 18.40        | -8.4E-9      |
| 934 | 3.18         | 14.3E-9     | 30.0E-9      | 848.0E-3   | 121.0E-3     | 18.47        | -7.3E-9      | 3.16             | 15.4E-9     | 31.0E-9      | 846.1E-3   | 121.1E-3     | 18.40        | -7.1E-9      |
| 935 | 3.31         | 10.2E-9     | 19.2E-9      | 851.6E-3   | 125.5E-3     | 18.30        | -7.0E-9      | 3.29             | 11.5E-9     | 21.0E-9      | 848.8E-3   | 126.7E-3     | 18.29        | -6.8E-9      |
| 936 | 3.33         | 15.4E-9     | 34.8E-9      | 853.6E-3   | 140.6E-3     | 17.80        | -5.6E-9      | 3.33             | 16.0E-9     | 36.0E-9      | 852.3E-3   | 141.6E-3     | 17.73        | -5.1E-9      |
| 937 | 3.25         | 9.2E-9      | 21.2E-9      | 846.8E-3   | 126.8E-3     | 18.32        | -6.6E-9      | 3.24             | 10.5E-9     | 22.9E-9      | 845.1E-3   | 127.8E-3     | 18.28        | -6.5E-9      |
| 938 | 3.22         | 20.5E-9     | 33.2E-9      | 856.0E-3   | 138.6E-3     | 18.18        | -7.4E-9      | 3.19             | 22.8E-9     | 35.3E-9      | 855.4E-3   | 139.1E-3     | 18.15        | -7.6E-9      |
| 939 | 3.32         | 9.2E-9      | 22.0E-9      | 851.2E-3   | 124.6E-3     | 18.23        | -7.4E-9      | 3.31             | 10.4E-9     | 24.4E-9      | 848.5E-3   | 125.3E-3     | 18.17        | -7.4E-9      |
| 940 | 3.22         | 21.0E-9     | 36.0E-9      | 853.2E-3   | 138.9E-3     | 18.16        | -7.0E-9      | 3.21             | 22.7E-9     | 38.7E-9      | 850.5E-3   | 139.4E-3     | 18.11        | -6.4E-9      |
| 941 | 3.33         | 9.7E-9      | 26.8E-9      | 847.2E-3   | 124.5E-3     | 18.28        | -7.1E-9      | 3.31             | 11.1E-9     | 29.3E-9      | 845.9E-3   | 125.4E-3     | 18.21        | -6.6E-9      |
| 942 | 3.23         | 22.0E-9     | 31.2E-9      | 844.0E-3   | 142.1E-3     | 18.04        | -7.0E-9      | 3.20             | 23.9E-9     | 34.0E-9      | 841.9E-3   | 143.0E-3     | 18.00        | -6.6E-9      |
| 943 | 3.34         | 13.8E-9     | 29.2E-9      | 852.0E-3   | 138.4E-3     | 17.96        | -800.0E-12   | 3.32             | 14.5E-9     | 30.0E-9      | 851.9E-3   | 138.4E-3     | 17.89        | -259.1E-12   |
| 944 | 3.28         | 14.9E-9     | 29.2E-9      | 852.4E-3   | 140.6E-3     | 17.96        | -6.2E-9      | 3.26             | 16.5E-9     | 32.3E-9      | 852.3E-3   | 141.8E-3     | 17.91        | -5.9E-9      |
| 945 | 3.26         | 14.3E-9     | 26.8E-9      | 853.6E-3   | 140.2E-3     | 18.02        | -6.0E-9      | 3.23             | 16.4E-9     | 29.1E-9      | 851.9E-3   | 140.8E-3     | 18.02        | -5.8E-9      |
| 946 | 3.29         | 14.3E-9     | 26.0E-9      | 849.6E-3   | 138.7E-3     | 17.96        | -6.2E-9      | 3.26             | 16.2E-9     | 28.4E-9      | 848.1E-3   | 139.4E-3     | 17.90        | -5.7E-9      |
| 947 | 3.25         | 11.3E-9     | 20.8E-9      | 846.4E-3   | 127.0E-3     | 18.34        | -7.0E-9      | 3.22             | 12.5E-9     | 21.6E-9      | 845.9E-3   | 127.7E-3     | 18.27        | -6.8E-9      |
| 948 | 3.24         | 18.4E-9     | 29.2E-9      | 846.0E-3   | 145.6E-3     | 17.99        | -7.1E-9      | 3.23             | 19.4E-9     | 29.9E-9      | 845.4E-3   | 146.1E-3     | 17.93        | -7.0E-9      |
| 949 | 3.21         | 17.4E-9     | 23.2E-9      | 851.2E-3   | 144.6E-3     | 18.02        | -6.6E-9      | 3.21             | 18.8E-9     | 25.9E-9      | 848.9E-3   | 144.6E-3     | 17.96        | -6.5E-9      |
| 950 | 3.22         | 18.4E-9     | 24.0E-9      | 846.8E-3   | 144.8E-3     | 18.07        | -7.0E-9      | 3.20             | 20.7E-9     | 26.8E-9      | 844.3E-3   | 145.1E-3     | 18.03        | -6.6E-9      |
| 951 | 3.28         | 11.3E-9     | 20.8E-9      | 856.8E-3   | 127.4E-3     | 18.24        | -7.7E-9      | 3.27             | 12.1E-9     | 22.1E-9      | 856.5E-3   | 128.5E-3     | 18.17        | -7.6E-9      |
| 952 | 3.20         | 16.4E-9     | 22.0E-9      | 846.8E-3   | 144.9E-3     | 18.13        | -6.3E-9      | 3.18             | 18.1E-9     | 22.6E-9      | 845.5E-3   | 144.9E-3     | 18.10        | -6.0E-9      |
| 953 | 3.21         | 12.8E-9     | 21.2E-9      | 845.2E-3   | 129.1E-3     | 18.35        | -7.9E-9      | 3.20             | 13.7E-9     | 23.8E-9      | 843.8E-3   | 129.2E-3     | 18.30        | -7.9E-9      |
| 954 | 3.19         | 18.4E-9     | 22.8E-9      | 855.6E-3   | 145.3E-3     | 18.13        | -7.1E-9      | 3.19             | 20.4E-9     | 23.4E-9      | 854.5E-3   | 146.1E-3     | 18.07        | -6.6E-9      |
| 955 | 3.20         | 13.8E-9     | 19.6E-9      | 846.8E-3   | 129.1E-3     | 18.47        | -7.5E-9      | 3.19             | 15.3E-9     | 21.2E-9      | 846.5E-3   | 129.4E-3     | 18.44        | -7.2E-9      |
| 956 | 3.19         | 16.4E-9     | 33.2E-9      | 844.8E-3   | 139.2E-3     | 18.42        | -7.2E-9      | 3.18             | 18.5E-9     | 34.3E-9      | 843.5E-3   | 139.3E-3     | 18.36        | -6.8E-9      |
| 957 | 3.20         | 12.3E-9     | 21.2E-9      | 847.2E-3   | 130.1E-3     | 18.42        | -8.0E-9      | 3.19             | 14.1E-9     | 23.5E-9      | 844.5E-3   | 130.4E-3     | 18.37        | -7.5E-9      |

***High Humidity, High  
Temperature ,Reverse Bias  
(H3TRB)***

# High Temperature, High Humidity, Reverse Biase (H3TRB)

Mil-Std 750 M 1042-A, 1000hrs, VDS= 520V, 150°C, 85%

Lot 6701

| SN   | Initials     |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1500 | 3.46         | 21.7E-9     | 27.7E-9      | 862.4E-3   | 135.3E-3     | 18.29        | -925.7E-12   |
| 1501 | 3.50         | 18.3E-9     | 22.2E-9      | 867.2E-3   | 134.6E-3     | 18.36        | 158.5E-12    |
| 1502 | 3.47         | 21.5E-9     | 25.5E-9      | 863.4E-3   | 133.7E-3     | 18.37        | -689.2E-12   |
| 1503 | 3.51         | 14.4E-9     | 27.8E-9      | 867.8E-3   | 132.7E-3     | 18.07        | 865.5E-12    |
| 1504 | 3.52         | 15.9E-9     | 24.5E-9      | 863.6E-3   | 133.1E-3     | 18.30        | 4.5E-9       |
| 1505 | 3.55         | 15.1E-9     | 41.1E-9      | 864.6E-3   | 132.2E-3     | 18.82        | 11.6E-9      |
| 1506 | 3.54         | 16.0E-9     | 27.8E-9      | 859.9E-3   | 132.7E-3     | 18.36        | 8.8E-9       |
| 1507 | 3.20         | 15.4E-9     | 22.1E-9      | 865.9E-3   | 132.7E-3     | 21.35        | -46.9E-12    |
| 1508 | 3.31         | 15.1E-9     | 27.8E-9      | 864.0E-3   | 131.2E-3     | 20.10        | -487.4E-12   |
| 1509 | 3.54         | 12.4E-9     | 23.8E-9      | 858.6E-3   | 132.6E-3     | 19.21        | -922.5E-12   |
| 1510 | 3.52         | 14.3E-9     | 23.0E-9      | 861.5E-3   | 132.2E-3     | 18.61        | 1.2E-9       |
| 1511 | 3.56         | 16.0E-9     | 27.0E-9      | 861.0E-3   | 132.7E-3     | 18.69        | 706.3E-12    |
| 1512 | 3.50         | 21.3E-9     | 24.5E-9      | 860.6E-3   | 133.3E-3     | 18.74        | 5.6E-9       |
| 1513 | 3.53         | 17.7E-9     | 25.0E-9      | 868.6E-3   | 132.6E-3     | 18.74        | 3.3E-9       |
| 1514 | 3.47         | 20.8E-9     | 26.9E-9      | 862.0E-3   | 132.7E-3     | 18.52        | 3.2E-9       |
| 1515 | 3.47         | 10.7E-9     | 22.5E-9      | 866.7E-3   | 133.4E-3     | 18.52        | 4.9E-9       |
| 1516 | 3.18         | 12.1E-9     | 22.7E-9      | 861.6E-3   | 138.2E-3     | 21.22        | 319.7E-12    |
| 1517 | 3.17         | 20.4E-9     | 22.6E-9      | 859.5E-3   | 140.8E-3     | 21.26        | -372.4E-12   |
| 1518 | 3.22         | 22.9E-9     | 23.5E-9      | 859.9E-3   | 139.8E-3     | 19.85        | 1.2E-9       |
| 1519 | 3.14         | 18.0E-9     | 25.2E-9      | 864.9E-3   | 138.9E-3     | 20.98        | 1.5E-9       |
| 1520 | 3.45         | 20.7E-9     | 23.5E-9      | 863.8E-3   | 138.2E-3     | 18.85        | 177.9E-12    |
| 1521 | 3.37         | 14.2E-9     | 28.8E-9      | 861.1E-3   | 140.3E-3     | 19.01        | 321.9E-12    |
| 1522 | 3.44         | 11.2E-9     | 25.6E-9      | 862.5E-3   | 138.1E-3     | 18.78        | 86.9E-12     |
| 1523 | 3.42         | 17.0E-9     | 26.5E-9      | 863.4E-3   | 138.2E-3     | 18.76        | 464.2E-12    |
| 1524 | 3.44         | 17.3E-9     | 24.9E-9      | 861.3E-3   | 136.8E-3     | 18.64        | -22.7E-9     |
| 1525 | 3.42         | 10.0E-9     | 25.9E-9      | 866.1E-3   | 137.1E-3     | 18.70        | -4.2E-9      |

| 1000Hr End Points |             |              |            |              |              |              |
|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
| VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.48              | 23.9E-9     | 28.3E-9      | 863.7E-3   | 135.8E-3     | 18.36        | -1.7E-9      |
| 3.52              | 21.2E-9     | 23.0E-9      | 870.1E-3   | 134.7E-3     | 18.44        | -599.9E-12   |
| 3.50              | 24.8E-9     | 30.0E-9      | 868.1E-3   | 134.1E-3     | 18.47        | -1.6E-9      |
| 3.53              | 17.9E-9     | 30.1E-9      | 875.6E-3   | 132.8E-3     | 18.15        | 67.8E-12     |
| 3.53              | 18.8E-9     | 30.4E-9      | 867.5E-3   | 133.5E-3     | 18.33        | 3.5E-9       |
| 3.57              | 15.5E-9     | 50.6E-9      | 871.9E-3   | 132.7E-3     | 18.86        | 12.3E-9      |
| 3.55              | 18.7E-9     | 35.0E-9      | 864.1E-3   | 133.3E-3     | 18.38        | 8.8E-9       |
| 3.22              | 17.2E-9     | 23.7E-9      | 870.5E-3   | 133.2E-3     | 21.47        | -767.5E-12   |
| 3.32              | 17.8E-9     | 34.1E-9      | 869.0E-3   | 131.9E-3     | 20.17        | -1.4E-9      |
| 3.56              | 14.8E-9     | 25.4E-9      | 863.3E-3   | 133.3E-3     | 19.25        | -1.8E-9      |
| 3.55              | 14.7E-9     | 24.4E-9      | 868.3E-3   | 132.8E-3     | 18.70        | 368.9E-12    |
| 3.58              | 18.0E-9     | 30.8E-9      | 867.5E-3   | 133.2E-3     | 18.78        | -89.6E-12    |
| 3.51              | 23.9E-9     | 29.2E-9      | 866.0E-3   | 133.4E-3     | 18.80        | 4.9E-9       |
| 3.53              | 18.5E-9     | 28.5E-9      | 870.2E-3   | 132.9E-3     | 18.81        | 2.4E-9       |
| 3.50              | 25.4E-9     | 32.1E-9      | 866.2E-3   | 133.4E-3     | 18.59        | 2.7E-9       |
| 3.49              | 11.9E-9     | 24.6E-9      | 870.1E-3   | 134.0E-3     | 18.54        | 4.1E-9       |
| 3.18              | 13.0E-9     | 26.3E-9      | 869.3E-3   | 138.7E-3     | 21.25        | -448.9E-12   |
| 3.18              | 23.8E-9     | 23.3E-9      | 867.0E-3   | 141.3E-3     | 21.32        | -1.1E-9      |
| 3.24              | 26.5E-9     | 25.0E-9      | 865.6E-3   | 140.3E-3     | 19.96        | 408.3E-12    |
| 3.15              | 19.6E-9     | 30.6E-9      | 871.2E-3   | 139.5E-3     | 21.04        | 704.3E-12    |
| 3.46              | 24.3E-9     | 25.3E-9      | 867.4E-3   | 138.9E-3     | 18.89        | -667.1E-12   |
| 3.38              | 14.8E-9     | 33.1E-9      | 862.3E-3   | 141.1E-3     | 19.08        | -430.5E-12   |
| 3.46              | 11.9E-9     | 32.0E-9      | 868.2E-3   | 138.5E-3     | 18.85        | -715.6E-12   |
| 3.44              | 19.6E-9     | 32.0E-9      | 869.4E-3   | 138.6E-3     | 18.85        | -332.5E-12   |
| 3.46              | 18.9E-9     | 26.8E-9      | 864.3E-3   | 137.0E-3     | 18.74        | -24.5E-9     |
| 3.43              | 11.4E-9     | 31.1E-9      | 873.2E-3   | 137.5E-3     | 18.81        | -5.6E-9      |

# High Temperature, High Humidity, Reverse Biase (H3TRB)

Mil-Std 750 M 1042-A, 1000hrs, VDS= 520V, 150°C, 85%

Lot 6701

| SN   | Initials     |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1526 | 3.46         | 10.7E-9     | 22.7E-9      | 867.4E-3   | 135.4E-3     | 18.48        | 4.8E-9       |
| 1527 | 3.44         | 12.7E-9     | 27.0E-9      | 858.3E-3   | 136.4E-3     | 18.55        | 16.9E-12     |
| 1528 | 3.46         | 15.7E-9     | 26.3E-9      | 861.3E-3   | 134.8E-3     | 18.36        | 297.7E-12    |
| 1529 | 3.46         | 17.9E-9     | 21.8E-9      | 866.7E-3   | 136.4E-3     | 18.27        | 300.4E-12    |
| 1530 | 3.48         | 15.2E-9     | 20.9E-9      | 864.5E-3   | 134.3E-3     | 18.21        | 654.1E-12    |
| 1531 | 3.47         | 16.2E-9     | 23.3E-9      | 863.1E-3   | 134.8E-3     | 18.35        | -1.5E-9      |
| 1532 | 3.46         | 18.5E-9     | 23.7E-9      | 860.9E-3   | 134.4E-3     | 18.42        | 2.2E-9       |
| 1533 | 3.48         | 14.4E-9     | 23.6E-9      | 864.9E-3   | 134.2E-3     | 18.34        | -748.0E-12   |
| 1534 | 3.45         | 20.4E-9     | 159.3E-9     | 861.9E-3   | 132.5E-3     | 18.81        | -2.5E-9      |
| 1535 | 3.47         | 15.7E-9     | 25.4E-9      | 858.3E-3   | 133.8E-3     | 18.66        | 275.9E-12    |
| 1536 | 3.43         | 19.9E-9     | 22.7E-9      | 860.0E-3   | 140.9E-3     | 18.37        | 146.2E-12    |
| 1537 | 3.45         | 18.7E-9     | 17.4E-9      | 861.6E-3   | 141.7E-3     | 18.34        | -1.2E-9      |
| 1538 | 3.61         | 17.3E-9     | 27.7E-9      | 864.3E-3   | 138.2E-3     | 18.23        | -184.3E-12   |
| 1539 | 3.67         | 16.0E-9     | 31.7E-9      | 864.0E-3   | 139.0E-3     | 18.80        | 436.7E-12    |
| 1540 | 3.64         | 26.1E-9     | 28.5E-9      | 865.6E-3   | 138.4E-3     | 18.16        | 222.7E-12    |
| 1541 | 3.61         | 18.6E-9     | 32.3E-9      | 860.2E-3   | 137.8E-3     | 18.31        | 61.2E-12     |
| 1542 | 3.65         | 20.7E-9     | 28.8E-9      | 866.1E-3   | 138.7E-3     | 18.46        | 2.9E-9       |
| 1543 | 3.57         | 18.0E-9     | 29.5E-9      | 865.2E-3   | 136.7E-3     | 18.43        | 957.2E-12    |
| 1544 | 3.59         | 23.4E-9     | 27.7E-9      | 861.9E-3   | 138.1E-3     | 18.33        | 3.1E-9       |
| 1545 | 3.56         | 21.0E-9     | 31.1E-9      | 860.0E-3   | 137.0E-3     | 18.60        | 999.0E-12    |
| 1546 | 3.58         | 17.4E-9     | 24.4E-9      | 861.8E-3   | 136.5E-3     | 18.39        | -207.4E-12   |
| 1547 | 3.51         | 24.1E-9     | 22.0E-9      | 867.2E-3   | 140.1E-3     | 18.11        | 2.2E-9       |
| 1548 | 3.53         | 15.7E-9     | 19.6E-9      | 861.8E-3   | 140.3E-3     | 18.06        | 2.0E-9       |
| 1549 | 3.50         | 23.3E-9     | 16.9E-9      | 858.4E-3   | 139.6E-3     | 18.06        | -717.6E-12   |
| 1550 | 3.56         | 25.0E-9     | 24.8E-9      | 859.2E-3   | 141.8E-3     | 18.19        | -762.4E-12   |
| 1551 | 3.53         | 17.7E-9     | 22.7E-9      | 864.3E-3   | 140.2E-3     | 18.12        | 612.7E-12    |

| 1000Hr End Points |             |              |            |              |              |              |
|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
| VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.48              | 13.2E-9     | 27.5E-9      | 871.0E-3   | 135.6E-3     | 18.51        | 3.5E-9       |
| 3.47              | 12.8E-9     | 28.1E-9      | 859.6E-3   | 136.7E-3     | 18.61        | -822.6E-12   |
| 3.47              | 16.4E-9     | 29.7E-9      | 864.3E-3   | 135.0E-3     | 18.40        | -505.2E-12   |
| 3.48              | 20.7E-9     | 23.4E-9      | 872.6E-3   | 136.6E-3     | 18.35        | -527.2E-12   |
| 3.51              | 16.2E-9     | 24.9E-9      | 868.0E-3   | 134.9E-3     | 18.24        | -146.0E-12   |
| 3.48              | 19.5E-9     | 24.5E-9      | 866.8E-3   | 135.1E-3     | 18.37        | -2.3E-9      |
| 3.47              | 20.9E-9     | 26.7E-9      | 865.4E-3   | 135.2E-3     | 18.48        | 1.3E-9       |
| 3.51              | 16.5E-9     | 27.9E-9      | 866.1E-3   | 134.9E-3     | 18.44        | -1.5E-9      |
| 3.46              | 20.9E-9     | 190.8E-9     | 868.6E-3   | 133.3E-3     | 18.92        | -3.1E-9      |
| 3.48              | 19.5E-9     | 26.1E-9      | 860.3E-3   | 134.1E-3     | 18.73        | -585.0E-12   |
| 3.44              | 23.6E-9     | 27.9E-9      | 867.4E-3   | 141.2E-3     | 18.41        | -603.1E-12   |
| 3.48              | 20.4E-9     | 21.2E-9      | 863.1E-3   | 142.3E-3     | 18.38        | -2.3E-9      |
| 3.62              | 20.2E-9     | 32.8E-9      | 868.2E-3   | 138.9E-3     | 18.32        | -1.0E-9      |
| 3.69              | 17.2E-9     | 35.2E-9      | 865.7E-3   | 139.7E-3     | 18.82        | -378.4E-12   |
| 3.66              | 30.3E-9     | 33.9E-9      | 869.1E-3   | 138.6E-3     | 18.23        | -534.7E-12   |
| 3.62              | 20.4E-9     | 33.7E-9      | 865.8E-3   | 138.2E-3     | 18.35        | -783.5E-12   |
| 3.67              | 20.9E-9     | 35.4E-9      | 867.7E-3   | 138.9E-3     | 18.54        | 2.2E-9       |
| 3.58              | 20.0E-9     | 36.3E-9      | 867.6E-3   | 136.8E-3     | 18.52        | 159.7E-12    |
| 3.60              | 26.4E-9     | 34.8E-9      | 864.2E-3   | 138.3E-3     | 18.43        | 2.5E-9       |
| 3.57              | 24.6E-9     | 34.2E-9      | 866.1E-3   | 137.5E-3     | 18.64        | 197.9E-12    |
| 3.59              | 19.5E-9     | 27.8E-9      | 864.9E-3   | 137.0E-3     | 18.45        | -987.1E-12   |
| 3.52              | 28.3E-9     | 24.9E-9      | 870.0E-3   | 140.6E-3     | 18.18        | 1.3E-9       |
| 3.55              | 16.9E-9     | 20.5E-9      | 863.8E-3   | 140.7E-3     | 18.13        | 1.4E-9       |
| 3.51              | 25.9E-9     | 19.5E-9      | 861.4E-3   | 140.1E-3     | 18.13        | -1.5E-9      |
| 3.57              | 27.8E-9     | 25.3E-9      | 864.1E-3   | 142.6E-3     | 18.23        | -1.6E-9      |
| 3.55              | 21.1E-9     | 24.0E-9      | 870.2E-3   | 140.6E-3     | 18.22        | -199.8E-12   |

# High Temperature, High Humidity, Reverse Biase (H3TRB)

Mil-Std 750 M 1042-A, 1000hrs, VDS= 520V, 150°C, 85%

Lot 6701

| SN   | Initials     |             |              |            |              |              |              | 1000Hr End Points |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1552 | 3.61         | 19.0E-9     | 22.8E-9      | 866.4E-3   | 142.5E-3     | 18.17        | 6.1E-9       | 3.63              | 23.4E-9     | 27.9E-9      | 868.4E-3   | 143.1E-3     | 18.21        | 4.9E-9       |
| 1553 | 3.55         | 21.8E-9     | 22.0E-9      | 867.9E-3   | 142.0E-3     | 17.98        | 800.0E-12    | 3.56              | 24.1E-9     | 26.7E-9      | 869.6E-3   | 142.7E-3     | 18.07        | 000.0E+0     |
| 1554 | 3.57         | 16.5E-9     | 22.9E-9      | 861.5E-3   | 141.7E-3     | 18.03        | 490.7E-12    | 3.58              | 20.3E-9     | 23.4E-9      | 868.1E-3   | 142.4E-3     | 18.09        | -340.5E-12   |
| 1555 | 3.53         | 21.4E-9     | 20.3E-9      | 860.2E-3   | 141.7E-3     | 18.05        | 363.0E-12    | 3.54              | 22.3E-9     | 20.8E-9      | 862.7E-3   | 142.0E-3     | 18.15        | -404.4E-12   |
| 1556 | 3.52         | 23.3E-9     | 18.1E-9      | 864.5E-3   | 141.6E-3     | 18.15        | 739.1E-12    | 3.54              | 25.1E-9     | 21.9E-9      | 868.6E-3   | 141.9E-3     | 18.23        | -56.7E-12    |
| 1557 | 3.48         | 17.8E-9     | 24.9E-9      | 861.0E-3   | 141.0E-3     | 18.15        | 2.1E-9       | 3.50              | 21.0E-9     | 27.1E-9      | 862.3E-3   | 141.2E-3     | 18.24        | 1.2E-9       |
| 1558 | 3.50         | 19.2E-9     | 33.9E-9      | 864.9E-3   | 141.4E-3     | 18.04        | 1.5E-9       | 3.52              | 24.1E-9     | 37.7E-9      | 869.7E-3   | 142.0E-3     | 18.11        | 791.7E-12    |
| 1559 | 3.49         | 17.8E-9     | 20.4E-9      | 868.3E-3   | 137.9E-3     | 18.12        | 695.1E-12    | 3.51              | 19.7E-9     | 23.8E-9      | 871.8E-3   | 138.6E-3     | 18.14        | -116.3E-12   |
| 1560 | 3.49         | 24.3E-9     | 21.5E-9      | 863.0E-3   | 139.2E-3     | 18.17        | 697.5E-12    | 3.50              | 30.1E-9     | 23.3E-9      | 870.7E-3   | 139.6E-3     | 18.20        | -108.7E-12   |
| 1561 | 3.51         | 16.0E-9     | 23.4E-9      | 864.0E-3   | 136.5E-3     | 18.15        | 576.7E-12    | 3.53              | 19.4E-9     | 25.1E-9      | 867.8E-3   | 137.1E-3     | 18.26        | -226.0E-12   |
| 1562 | 3.48         | 22.1E-9     | 22.5E-9      | 866.6E-3   | 136.9E-3     | 18.15        | -86.3E-12    | 3.50              | 25.7E-9     | 27.6E-9      | 871.8E-3   | 137.5E-3     | 18.22        | -832.3E-12   |
| 1563 | 3.53         | 15.8E-9     | 25.1E-9      | 858.6E-3   | 135.3E-3     | 18.12        | 489.4E-12    | 3.55              | 17.9E-9     | 30.8E-9      | 862.6E-3   | 135.5E-3     | 18.16        | -304.2E-12   |
| 1564 | 3.53         | 17.2E-9     | 21.0E-9      | 867.3E-3   | 136.0E-3     | 18.12        | -50.0E-12    | 3.54              | 20.3E-9     | 22.5E-9      | 873.8E-3   | 136.5E-3     | 18.17        | -981.5E-12   |
| 1565 | 3.49         | 23.1E-9     | 22.1E-9      | 867.3E-3   | 133.0E-3     | 18.04        | -467.5E-12   | 3.49              | 24.2E-9     | 23.0E-9      | 869.6E-3   | 133.8E-3     | 18.07        | -1.3E-9      |
| 1566 | 3.48         | 14.2E-9     | 31.9E-9      | 859.3E-3   | 133.4E-3     | 18.09        | -525.0E-12   | 3.49              | 14.4E-9     | 40.1E-9      | 864.8E-3   | 134.1E-3     | 18.14        | -1.4E-9      |
| 1567 | 3.51         | 19.5E-9     | 29.8E-9      | 861.1E-3   | 131.7E-3     | 17.93        | 451.1E-12    | 3.51              | 22.7E-9     | 36.4E-9      | 867.6E-3   | 132.3E-3     | 17.99        | -361.5E-12   |
| 1568 | 3.51         | 15.5E-9     | 25.0E-9      | 861.2E-3   | 132.2E-3     | 18.14        | 110.9E-12    | 3.51              | 19.4E-9     | 28.0E-9      | 863.9E-3   | 132.6E-3     | 18.16        | -687.9E-12   |
| 1569 | 3.55         | 13.8E-9     | 27.9E-9      | 863.6E-3   | 131.3E-3     | 18.11        | 129.6E-12    | 3.57              | 15.9E-9     | 33.4E-9      | 865.3E-3   | 131.7E-3     | 18.20        | -601.9E-12   |
| 1570 | 3.54         | 15.6E-9     | 28.6E-9      | 860.4E-3   | 131.1E-3     | 18.01        | -208.6E-12   | 3.55              | 16.7E-9     | 29.2E-9      | 863.1E-3   | 131.6E-3     | 18.11        | -993.6E-12   |
| 1571 | 3.56         | 11.2E-9     | 27.5E-9      | 864.0E-3   | 130.9E-3     | 18.11        | 701.9E-12    | 3.58              | 11.7E-9     | 28.9E-9      | 869.5E-3   | 131.4E-3     | 18.19        | -118.1E-12   |
| 1572 | 3.59         | 14.7E-9     | 27.0E-9      | 864.4E-3   | 129.8E-3     | 18.64        | 965.0E-12    | 3.60              | 17.9E-9     | 33.4E-9      | 868.6E-3   | 130.0E-3     | 18.68        | 151.9E-12    |
| 1573 | 3.53         | 15.4E-9     | 25.4E-9      | 861.3E-3   | 131.8E-3     | 18.02        | 730.9E-12    | 3.54              | 19.2E-9     | 25.7E-9      | 866.3E-3   | 132.3E-3     | 18.08        | -65.5E-12    |
| 1574 | 3.52         | 15.6E-9     | 27.2E-9      | 861.7E-3   | 132.1E-3     | 18.04        | 18.9E-12     | 3.54              | 16.4E-9     | 32.9E-9      | 865.9E-3   | 132.9E-3     | 18.13        | -856.0E-12   |
| 1575 | 3.49         | 16.9E-9     | 26.3E-9      | 867.6E-3   | 133.2E-3     | 18.10        | 362.9E-12    | 3.50              | 17.1E-9     | 27.8E-9      | 872.5E-3   | 133.6E-3     | 18.14        | -437.6E-12   |
| 1576 | 3.50         | 16.8E-9     | 26.1E-9      | 858.2E-3   | 133.1E-3     | 18.13        | -178.1E-12   | 3.51              | 20.8E-9     | 31.7E-9      | 864.4E-3   | 133.5E-3     | 18.22        | -875.0E-12   |



# High Temperature, High Humidity, Reverse Biase (H3TRB)

Mil-Std 750 M 1042-A, 1000hrs, VDS= 520V, 150°C, 85%

Lot 6608

| SN   | Initials     |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1580 | 3.49         | 25.0E-9     | 41.5E-9      | 870.7E-3   | 136.6E-3     | 18.34        | -1.9E-9      |
| 1581 | 3.52         | 26.2E-9     | 29.5E-9      | 873.3E-3   | 136.0E-3     | 18.44        | -735.4E-12   |
| 1582 | 3.50         | 30.2E-9     | 32.2E-9      | 870.9E-3   | 135.1E-3     | 18.54        | -1.9E-9      |
| 1583 | 3.54         | 19.5E-9     | 39.7E-9      | 874.0E-3   | 134.1E-3     | 18.24        | 79.7E-12     |
| 1584 | 3.56         | 21.0E-9     | 29.1E-9      | 869.9E-3   | 133.8E-3     | 18.39        | 3.6E-9       |
| 1585 | 3.59         | 19.5E-9     | 51.1E-9      | 872.8E-3   | 133.6E-3     | 19.02        | 12.8E-9      |
| 1586 | 3.59         | 22.6E-9     | 42.2E-9      | 867.8E-3   | 133.7E-3     | 18.47        | 10.5E-9      |
| 1587 | 3.34         | 18.7E-9     | 28.0E-9      | 877.4E-3   | 133.6E-3     | 21.52        | -919.2E-12   |
| 1588 | 3.32         | 17.8E-9     | 37.6E-9      | 869.9E-3   | 132.0E-3     | 20.19        | -1.4E-9      |
| 1589 | 3.56         | 15.7E-9     | 26.9E-9      | 863.5E-3   | 133.9E-3     | 19.37        | -1.9E-9      |
| 1590 | 3.56         | 19.1E-9     | 27.8E-9      | 867.5E-3   | 133.1E-3     | 18.70        | 429.7E-12    |
| 1591 | 3.58         | 20.6E-9     | 36.9E-9      | 865.5E-3   | 133.9E-3     | 18.83        | -106.9E-12   |
| 1592 | 3.33         | 22.8E-9     | 37.1E-9      | 867.9E-3   | 134.6E-3     | 18.82        | 5.4E-9       |
| 1593 | 3.56         | 22.0E-9     | 32.5E-9      | 880.9E-3   | 133.6E-3     | 18.89        | 3.4E-9       |
| 1594 | 3.50         | 24.2E-9     | 38.2E-9      | 870.5E-3   | 133.9E-3     | 18.64        | 2.5E-9       |
| 1595 | 3.51         | 13.2E-9     | 32.4E-9      | 871.3E-3   | 134.2E-3     | 18.58        | 4.9E-9       |
| 1596 | 3.40         | 14.4E-9     | 28.3E-9      | 871.4E-3   | 138.9E-3     | 21.41        | -605.3E-12   |
| 1597 | 3.19         | 21.8E-9     | 32.2E-9      | 861.9E-3   | 141.6E-3     | 21.51        | -1.3E-9      |
| 1598 | 3.27         | 32.1E-9     | 32.6E-9      | 863.5E-3   | 140.6E-3     | 20.03        | 491.5E-12    |
| 1599 | 3.16         | 23.3E-9     | 38.4E-9      | 874.9E-3   | 139.9E-3     | 21.20        | 806.9E-12    |
| 1600 | 3.48         | 26.4E-9     | 33.0E-9      | 869.1E-3   | 139.2E-3     | 19.00        | -789.0E-12   |
| 1601 | 3.30         | 20.2E-9     | 39.1E-9      | 868.0E-3   | 141.4E-3     | 19.15        | -560.7E-12   |
| 1602 | 3.45         | 14.4E-9     | 32.5E-9      | 869.7E-3   | 138.6E-3     | 18.92        | -772.2E-12   |
| 1603 | 3.46         | 22.9E-9     | 34.7E-9      | 869.9E-3   | 138.9E-3     | 18.87        | -436.3E-12   |
| 1604 | 3.47         | 22.6E-9     | 31.6E-9      | 865.7E-3   | 138.0E-3     | 18.73        | -26.5E-9     |
| 1605 | 3.45         | 11.4E-9     | 27.7E-9      | 872.6E-3   | 138.2E-3     | 18.87        | -6.2E-9      |

| 1000Hr End Points |             |              |            |              |              |              |
|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
| VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.51              | 29.9E-9     | 49.5E-9      | 875.9E-3   | 136.9E-3     | 18.37        | -1.9E-9      |
| 3.52              | 28.4E-9     | 34.9E-9      | 874.5E-3   | 136.4E-3     | 18.51        | -926.0E-12   |
| 3.52              | 37.0E-9     | 33.8E-9      | 872.9E-3   | 135.9E-3     | 18.57        | -2.0E-9      |
| 3.56              | 20.9E-9     | 49.2E-9      | 875.6E-3   | 134.2E-3     | 18.30        | 86.4E-12     |
| 3.58              | 22.4E-9     | 36.1E-9      | 872.0E-3   | 134.0E-3     | 18.50        | 4.0E-9       |
| 3.60              | 24.1E-9     | 55.6E-9      | 876.5E-3   | 133.8E-3     | 19.04        | 13.8E-9      |
| 3.60              | 27.0E-9     | 51.9E-9      | 871.8E-3   | 133.9E-3     | 18.53        | 12.6E-9      |
| 3.35              | 23.0E-9     | 34.6E-9      | 879.6E-3   | 133.8E-3     | 21.57        | -1.1E-9      |
| 3.34              | 21.5E-9     | 38.4E-9      | 872.3E-3   | 132.4E-3     | 20.27        | -1.4E-9      |
| 3.58              | 16.2E-9     | 31.2E-9      | 868.0E-3   | 134.6E-3     | 19.42        | -2.3E-9      |
| 3.58              | 23.0E-9     | 28.9E-9      | 871.4E-3   | 133.4E-3     | 18.77        | 450.7E-12    |
| 3.60              | 24.2E-9     | 40.8E-9      | 869.1E-3   | 134.4E-3     | 18.88        | -116.9E-12   |
| 3.33              | 26.7E-9     | 46.5E-9      | 870.8E-3   | 135.4E-3     | 18.90        | 6.3E-9       |
| 3.58              | 22.8E-9     | 35.7E-9      | 885.5E-3   | 134.2E-3     | 18.94        | 4.1E-9       |
| 3.52              | 27.1E-9     | 47.0E-9      | 874.2E-3   | 134.5E-3     | 18.73        | 3.1E-9       |
| 3.51              | 16.6E-9     | 36.4E-9      | 875.7E-3   | 134.9E-3     | 18.66        | 6.0E-9       |
| 3.41              | 15.7E-9     | 33.1E-9      | 874.9E-3   | 139.7E-3     | 21.51        | -718.0E-12   |
| 3.20              | 22.3E-9     | 34.8E-9      | 866.7E-3   | 142.2E-3     | 21.57        | -1.4E-9      |
| 3.28              | 40.2E-9     | 34.5E-9      | 868.6E-3   | 141.3E-3     | 20.11        | 525.6E-12    |
| 3.16              | 23.8E-9     | 40.5E-9      | 877.7E-3   | 140.1E-3     | 21.25        | 874.3E-12    |
| 3.49              | 28.1E-9     | 36.7E-9      | 870.4E-3   | 139.6E-3     | 19.08        | -857.5E-12   |
| 3.32              | 20.6E-9     | 45.0E-9      | 870.0E-3   | 141.9E-3     | 19.25        | -675.6E-12   |
| 3.47              | 17.6E-9     | 38.2E-9      | 873.0E-3   | 139.3E-3     | 18.99        | -921.3E-12   |
| 3.48              | 27.4E-9     | 41.8E-9      | 875.1E-3   | 139.6E-3     | 18.95        | -443.2E-12   |
| 3.49              | 24.4E-9     | 36.3E-9      | 867.1E-3   | 138.3E-3     | 18.84        | -30.8E-9     |
| 3.46              | 12.3E-9     | 34.5E-9      | 875.1E-3   | 138.7E-3     | 18.93        | -6.9E-9      |

# High Temperature, High Humidity, Reverse Biase (H3TRB)

Mil-Std 750 M 1042-A, 1000hrs, VDS= 520V, 150°C, 85%

Lot 6608

| SN   | Initials     |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1606 | 3.48         | 13.1E-9     | 26.5E-9      | 872.7E-3   | 136.3E-3     | 18.67        | 3.9E-9       |
| 1607 | 3.21         | 20.4E-9     | 33.6E-9      | 863.0E-3   | 126.9E-3     | 18.83        | -11.5E-9     |
| 1608 | 3.26         | 17.1E-9     | 30.8E-9      | 859.1E-3   | 122.9E-3     | 18.88        | -13.6E-9     |
| 1609 | 3.23         | 21.4E-9     | 27.9E-9      | 862.3E-3   | 124.0E-3     | 19.08        | -4.6E-9      |
| 1610 | 3.49         | 15.2E-9     | 28.2E-9      | 870.3E-3   | 121.2E-3     | 18.94        | 8.8E-9       |
| 1611 | 3.29         | 16.4E-9     | 28.3E-9      | 859.7E-3   | 122.6E-3     | 18.98        | -9.1E-9      |
| 1612 | 3.26         | 15.7E-9     | 39.2E-9      | 864.1E-3   | 122.6E-3     | 18.92        | -7.4E-9      |
| 1613 | 3.25         | 20.1E-9     | 26.2E-9      | 866.8E-3   | 127.6E-3     | 19.13        | -5.2E-9      |
| 1614 | 3.22         | 14.6E-9     | 28.6E-9      | 860.4E-3   | 126.3E-3     | 18.96        | -11.1E-9     |
| 1615 | 3.25         | 11.8E-9     | 25.2E-9      | 863.2E-3   | 129.3E-3     | 18.82        | -9.3E-9      |
| 1616 | 3.24         | 18.6E-9     | 32.8E-9      | 861.2E-3   | 127.2E-3     | 19.08        | -8.2E-9      |
| 1617 | 3.36         | 15.7E-9     | 27.2E-9      | 870.0E-3   | 125.8E-3     | 18.78        | -9.0E-9      |
| 1618 | 3.24         | 18.6E-9     | 25.2E-9      | 868.1E-3   | 128.6E-3     | 18.90        | -13.2E-9     |
| 1619 | 3.35         | 23.8E-9     | 25.1E-9      | 864.2E-3   | 126.8E-3     | 18.65        | -8.2E-9      |
| 1620 | 3.35         | 15.6E-9     | 34.2E-9      | 865.2E-3   | 127.6E-3     | 18.75        | -3.2E-9      |
| 1621 | 3.27         | 25.3E-9     | 23.9E-9      | 860.1E-3   | 128.1E-3     | 18.94        | 1.0E-9       |
| 1622 | 3.28         | 10.9E-9     | 38.3E-9      | 867.4E-3   | 127.8E-3     | 18.89        | -10.0E-9     |
| 1623 | 3.26         | 11.6E-9     | 31.1E-9      | 865.4E-3   | 126.6E-3     | 18.59        | -9.7E-9      |
| 1624 | 3.27         | 22.2E-9     | 33.4E-9      | 864.3E-3   | 127.8E-3     | 18.83        | -9.2E-9      |
| 1625 | 3.28         | 23.4E-9     | 31.9E-9      | 862.1E-3   | 126.1E-3     | 18.37        | -6.7E-9      |
| 1626 | 3.30         | 17.0E-9     | 35.3E-9      | 868.3E-3   | 125.2E-3     | 18.56        | -4.6E-9      |
| 1627 | 3.29         | 18.7E-9     | 29.0E-9      | 860.0E-3   | 124.7E-3     | 18.42        | -8.5E-9      |
| 1628 | 3.34         | 15.0E-9     | 31.5E-9      | 865.7E-3   | 125.3E-3     | 18.40        | -8.1E-9      |
| 1629 | 3.24         | 13.3E-9     | 25.3E-9      | 867.3E-3   | 126.1E-3     | 18.42        | -9.0E-9      |
| 1630 | 3.55         | 22.8E-9     | 25.2E-9      | 858.7E-3   | 141.4E-3     | 18.18        | -1.5E-9      |
| 1631 | 3.54         | 18.8E-9     | 20.4E-9      | 863.3E-3   | 140.4E-3     | 18.17        | -150.6E-12   |

| 1000Hr End Points |             |              |            |              |              |              |
|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
| VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.50              | 14.9E-9     | 28.1E-9      | 873.7E-3   | 136.6E-3     | 18.70        | 4.6E-9       |
| 3.22              | 24.5E-9     | 37.6E-9      | 864.2E-3   | 127.3E-3     | 18.91        | -13.8E-9     |
| 3.27              | 17.3E-9     | 35.3E-9      | 860.9E-3   | 123.1E-3     | 18.99        | -14.8E-9     |
| 3.25              | 26.2E-9     | 30.1E-9      | 866.1E-3   | 124.6E-3     | 19.16        | -5.5E-9      |
| 3.50              | 18.4E-9     | 34.2E-9      | 873.1E-3   | 121.5E-3     | 18.99        | 9.5E-9       |
| 3.30              | 18.3E-9     | 33.4E-9      | 861.6E-3   | 122.7E-3     | 19.03        | -10.3E-9     |
| 3.27              | 17.4E-9     | 47.4E-9      | 865.9E-3   | 122.9E-3     | 18.96        | -7.8E-9      |
| 3.26              | 24.4E-9     | 29.9E-9      | 868.5E-3   | 128.1E-3     | 19.25        | -6.5E-9      |
| 3.24              | 15.2E-9     | 33.7E-9      | 861.5E-3   | 126.5E-3     | 19.04        | -13.7E-9     |
| 3.26              | 13.6E-9     | 26.2E-9      | 868.1E-3   | 129.5E-3     | 18.88        | -9.6E-9      |
| 3.26              | 20.8E-9     | 39.6E-9      | 865.0E-3   | 127.7E-3     | 19.14        | -10.4E-9     |
| 3.37              | 19.7E-9     | 33.4E-9      | 873.3E-3   | 126.5E-3     | 18.89        | -10.2E-9     |
| 3.25              | 21.6E-9     | 28.8E-9      | 870.9E-3   | 129.1E-3     | 18.93        | -15.5E-9     |
| 3.35              | 27.5E-9     | 26.2E-9      | 867.8E-3   | 127.3E-3     | 18.71        | -10.1E-9     |
| 3.37              | 18.6E-9     | 35.2E-9      | 869.3E-3   | 127.8E-3     | 18.78        | -3.8E-9      |
| 3.29              | 27.1E-9     | 27.0E-9      | 864.9E-3   | 128.7E-3     | 19.03        | 1.1E-9       |
| 3.29              | 11.3E-9     | 42.3E-9      | 869.4E-3   | 127.9E-3     | 19.00        | -11.9E-9     |
| 3.28              | 12.5E-9     | 34.5E-9      | 868.3E-3   | 126.7E-3     | 18.64        | -10.5E-9     |
| 3.28              | 27.3E-9     | 36.4E-9      | 868.7E-3   | 128.2E-3     | 18.93        | -10.0E-9     |
| 3.29              | 28.5E-9     | 39.7E-9      | 863.2E-3   | 126.4E-3     | 18.43        | -8.1E-9      |
| 3.30              | 18.7E-9     | 43.3E-9      | 869.9E-3   | 125.8E-3     | 18.60        | -5.5E-9      |
| 3.31              | 23.5E-9     | 35.7E-9      | 862.2E-3   | 125.3E-3     | 18.52        | -10.5E-9     |
| 3.34              | 18.6E-9     | 35.7E-9      | 867.3E-3   | 125.5E-3     | 18.47        | -9.0E-9      |
| 3.26              | 15.0E-9     | 26.7E-9      | 868.2E-3   | 126.7E-3     | 18.48        | -10.4E-9     |
| 3.57              | 27.5E-9     | 26.2E-9      | 863.0E-3   | 142.2E-3     | 18.29        | -1.6E-9      |
| 3.55              | 20.6E-9     | 21.9E-9      | 866.1E-3   | 140.8E-3     | 18.20        | -160.9E-12   |

# High Temperature, High Humidity, Reverse Biase (H3TRB)

Mil-Std 750 M 1042-A, 1000hrs, VDS= 520V, 150°C, 85%

Lot 6608

| SN   | Initials     |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1632 | 3.61         | 16.7E-9     | 22.9E-9      | 866.3E-3   | 142.2E-3     | 18.19        | 4.5E-9       |
| 1633 | 3.25         | 21.2E-9     | 20.0E-9      | 865.1E-3   | 141.4E-3     | 18.01        | 000.0E+0     |
| 1634 | 3.57         | 15.7E-9     | 22.9E-9      | 860.9E-3   | 141.6E-3     | 18.06        | -293.3E-12   |
| 1635 | 3.53         | 20.2E-9     | 21.3E-9      | 859.1E-3   | 141.9E-3     | 18.02        | -408.9E-12   |
| 1636 | 3.53         | 23.4E-9     | 21.7E-9      | 861.0E-3   | 141.7E-3     | 18.16        | -58.6E-12    |
| 1637 | 3.47         | 18.8E-9     | 21.3E-9      | 861.6E-3   | 140.8E-3     | 18.12        | 1.2E-9       |
| 1638 | 3.49         | 21.3E-9     | 32.0E-9      | 863.0E-3   | 141.3E-3     | 18.04        | 729.0E-12    |
| 1639 | 3.49         | 21.4E-9     | 21.2E-9      | 864.7E-3   | 137.8E-3     | 18.13        | -102.4E-12   |
| 1640 | 3.49         | 24.5E-9     | 21.0E-9      | 864.1E-3   | 138.9E-3     | 18.17        | -114.1E-12   |
| 1641 | 3.51         | 17.0E-9     | 20.3E-9      | 864.6E-3   | 136.5E-3     | 18.11        | -186.7E-12   |
| 1642 | 3.50         | 18.3E-9     | 19.7E-9      | 864.2E-3   | 136.8E-3     | 18.17        | -791.7E-12   |
| 1643 | 3.53         | 17.5E-9     | 23.0E-9      | 857.9E-3   | 135.7E-3     | 18.08        | -279.2E-12   |
| 1644 | 3.51         | 16.2E-9     | 21.6E-9      | 868.0E-3   | 135.6E-3     | 18.08        | -801.7E-12   |
| 1645 | 3.48         | 21.8E-9     | 21.8E-9      | 865.0E-3   | 132.6E-3     | 18.09        | -1.3E-9      |
| 1646 | 3.50         | 16.0E-9     | 32.7E-9      | 861.2E-3   | 134.0E-3     | 18.05        | -1.2E-9      |
| 1647 | 3.51         | 20.8E-9     | 24.5E-9      | 862.1E-3   | 132.0E-3     | 17.96        | -315.1E-12   |
| 1648 | 3.51         | 13.9E-9     | 23.4E-9      | 860.9E-3   | 132.3E-3     | 18.12        | -655.9E-12   |
| 1649 | 3.55         | 15.2E-9     | 30.0E-9      | 864.5E-3   | 131.3E-3     | 18.12        | -641.1E-12   |
| 1650 | 3.55         | 14.5E-9     | 27.1E-9      | 861.3E-3   | 131.2E-3     | 17.97        | -932.6E-12   |
| 1651 | 3.56         | 12.1E-9     | 26.5E-9      | 864.1E-3   | 131.4E-3     | 18.14        | -105.8E-12   |
| 1652 | 3.59         | 15.4E-9     | 26.7E-9      | 865.1E-3   | 130.3E-3     | 18.61        | 149.4E-12    |
| 1653 | 3.53         | 13.5E-9     | 21.7E-9      | 863.5E-3   | 131.8E-3     | 18.01        | -55.8E-12    |
| 1654 | 3.53         | 14.4E-9     | 24.7E-9      | 860.2E-3   | 132.7E-3     | 18.09        | -815.3E-12   |
| 1655 | 3.49         | 16.1E-9     | 26.9E-9      | 868.4E-3   | 133.4E-3     | 18.11        | -364.9E-12   |
| 1656 | 3.49         | 16.3E-9     | 25.7E-9      | 861.2E-3   | 132.9E-3     | 18.09        | -833.7E-12   |

| 1000Hr End Points |             |              |            |              |              |              |
|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
| VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.62              | 20.1E-9     | 28.8E-9      | 869.1E-3   | 142.9E-3     | 18.29        | 5.4E-9       |
| 3.25              | 26.3E-9     | 21.5E-9      | 867.2E-3   | 141.9E-3     | 18.06        | 000.0E+0     |
| 3.59              | 16.5E-9     | 25.8E-9      | 864.4E-3   | 142.2E-3     | 18.17        | -322.7E-12   |
| 3.55              | 23.1E-9     | 24.6E-9      | 863.7E-3   | 142.1E-3     | 18.09        | -475.6E-12   |
| 3.54              | 24.6E-9     | 25.6E-9      | 864.0E-3   | 142.3E-3     | 18.21        | -66.2E-12    |
| 3.49              | 20.5E-9     | 23.3E-9      | 866.0E-3   | 141.2E-3     | 18.20        | 1.4E-9       |
| 3.50              | 24.9E-9     | 35.8E-9      | 866.9E-3   | 141.6E-3     | 18.15        | 870.1E-12    |
| 3.51              | 23.9E-9     | 21.8E-9      | 869.7E-3   | 138.1E-3     | 18.19        | -123.9E-12   |
| 3.50              | 29.5E-9     | 21.7E-9      | 868.6E-3   | 139.5E-3     | 18.26        | -137.9E-12   |
| 3.51              | 20.8E-9     | 22.6E-9      | 866.0E-3   | 136.7E-3     | 18.18        | -232.5E-12   |
| 3.50              | 19.1E-9     | 21.4E-9      | 867.7E-3   | 137.1E-3     | 18.25        | -900.8E-12   |
| 3.55              | 20.3E-9     | 28.2E-9      | 862.9E-3   | 136.3E-3     | 18.16        | -342.2E-12   |
| 3.52              | 19.8E-9     | 21.8E-9      | 872.6E-3   | 136.2E-3     | 18.10        | -886.1E-12   |
| 3.49              | 22.9E-9     | 26.8E-9      | 867.6E-3   | 132.7E-3     | 18.12        | -1.5E-9      |
| 3.51              | 17.6E-9     | 34.6E-9      | 862.1E-3   | 134.4E-3     | 18.11        | -1.3E-9      |
| 3.52              | 25.9E-9     | 27.0E-9      | 863.4E-3   | 132.8E-3     | 17.99        | -388.5E-12   |
| 3.53              | 16.5E-9     | 27.9E-9      | 865.1E-3   | 132.7E-3     | 18.15        | -747.2E-12   |
| 3.55              | 16.8E-9     | 34.9E-9      | 867.7E-3   | 131.5E-3     | 18.15        | -678.1E-12   |
| 3.57              | 17.9E-9     | 32.0E-9      | 864.3E-3   | 131.8E-3     | 18.06        | -1.2E-9      |
| 3.57              | 14.9E-9     | 29.1E-9      | 868.5E-3   | 131.6E-3     | 18.21        | -123.0E-12   |
| 3.60              | 18.9E-9     | 33.4E-9      | 867.2E-3   | 131.0E-3     | 18.71        | 164.5E-12    |
| 3.54              | 13.6E-9     | 26.7E-9      | 866.2E-3   | 132.4E-3     | 18.06        | -62.2E-12    |
| 3.54              | 16.5E-9     | 25.1E-9      | 862.3E-3   | 133.2E-3     | 18.11        | -907.6E-12   |
| 3.51              | 16.8E-9     | 29.8E-9      | 872.5E-3   | 134.1E-3     | 18.16        | -409.7E-12   |
| 3.51              | 17.7E-9     | 31.7E-9      | 865.3E-3   | 133.3E-3     | 18.16        | -951.6E-12   |

# High Temperature, High Humidity, Reverse Biase (H3TRB)

Mil-Std 750 M 1042-A, 1000hrs, VDS= 520V, 150°C, 85%

Lot 6700

| SN   | Initials     |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1660 | 3.18         | 16.7E-9     | 23.7E-9      | 856.9E-3   | 125.8E-3     | 18.72        | -8.3E-9      |
| 1661 | 3.24         | 15.4E-9     | 22.5E-9      | 854.6E-3   | 122.3E-3     | 18.73        | -9.7E-9      |
| 1662 | 3.21         | 19.1E-9     | 20.1E-9      | 856.8E-3   | 122.9E-3     | 18.92        | -3.9E-9      |
| 1663 | 3.26         | 11.1E-9     | 19.3E-9      | 861.4E-3   | 120.4E-3     | 18.83        | 5.6E-9       |
| 1664 | 3.26         | 14.5E-9     | 22.6E-9      | 855.4E-3   | 121.5E-3     | 18.81        | -7.5E-9      |
| 1665 | 3.23         | 13.3E-9     | 28.1E-9      | 859.2E-3   | 121.8E-3     | 18.81        | -6.0E-9      |
| 1666 | 3.24         | 15.7E-9     | 19.9E-9      | 863.1E-3   | 126.7E-3     | 18.99        | -3.5E-9      |
| 1667 | 3.20         | 12.5E-9     | 19.9E-9      | 855.5E-3   | 125.6E-3     | 18.89        | -9.0E-9      |
| 1668 | 3.24         | 10.4E-9     | 20.9E-9      | 857.2E-3   | 128.3E-3     | 18.74        | -7.5E-9      |
| 1669 | 3.23         | 11.8E-9     | 22.2E-9      | 855.2E-3   | 126.7E-3     | 18.95        | -6.8E-9      |
| 1670 | 3.35         | 12.0E-9     | 20.6E-9      | 863.1E-3   | 125.4E-3     | 18.62        | -7.3E-9      |
| 1671 | 3.22         | 16.3E-9     | 21.2E-9      | 859.5E-3   | 127.7E-3     | 18.78        | -8.8E-9      |
| 1672 | 3.49         | 13.4E-9     | 26.9E-9      | 874.2E-3   | 136.6E-3     | 18.76        | 4.1E-9       |
| 1673 | 3.22         | 25.0E-9     | 40.1E-9      | 864.4E-3   | 127.4E-3     | 18.88        | -12.3E-9     |
| 1674 | 3.27         | 20.2E-9     | 32.0E-9      | 862.8E-3   | 123.6E-3     | 18.94        | -16.4E-9     |
| 1675 | 3.25         | 22.2E-9     | 32.0E-9      | 864.6E-3   | 124.3E-3     | 19.12        | -5.0E-9      |
| 1676 | 3.30         | 18.8E-9     | 35.1E-9      | 874.9E-3   | 121.7E-3     | 18.99        | 10.6E-9      |
| 1677 | 3.31         | 18.1E-9     | 30.9E-9      | 861.6E-3   | 122.9E-3     | 19.05        | -10.3E-9     |
| 1678 | 3.27         | 19.1E-9     | 44.7E-9      | 865.1E-3   | 123.2E-3     | 19.02        | -9.1E-9      |
| 1679 | 3.27         | 21.0E-9     | 28.9E-9      | 868.3E-3   | 128.3E-3     | 19.21        | -5.7E-9      |
| 1680 | 3.24         | 16.0E-9     | 33.1E-9      | 864.0E-3   | 126.5E-3     | 19.03        | -13.2E-9     |
| 1681 | 3.26         | 12.2E-9     | 27.9E-9      | 868.2E-3   | 129.4E-3     | 18.84        | -11.0E-9     |
| 1682 | 3.25         | 21.3E-9     | 36.6E-9      | 863.4E-3   | 127.4E-3     | 19.18        | -9.5E-9      |
| 1683 | 3.38         | 16.3E-9     | 30.7E-9      | 873.7E-3   | 126.1E-3     | 18.82        | -11.0E-9     |
| 1684 | 3.25         | 21.5E-9     | 28.8E-9      | 870.0E-3   | 129.4E-3     | 19.01        | -15.9E-9     |
| 1685 | 3.36         | 24.4E-9     | 26.3E-9      | 866.3E-3   | 127.4E-3     | 18.74        | -8.7E-9      |

| 1000Hr End Points |             |              |            |              |              |              |
|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
| VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 3.19              | 17.5E-9     | 26.3E-9      | 858.7E-3   | 126.2E-3     | 18.79        | -9.9E-9      |
| 3.26              | 18.4E-9     | 22.9E-9      | 858.5E-3   | 122.5E-3     | 18.83        | -10.7E-9     |
| 3.22              | 20.8E-9     | 22.8E-9      | 861.0E-3   | 123.4E-3     | 19.00        | -4.5E-9      |
| 3.27              | 11.8E-9     | 22.7E-9      | 866.1E-3   | 121.1E-3     | 18.91        | 6.4E-9       |
| 3.27              | 15.7E-9     | 23.3E-9      | 860.3E-3   | 122.2E-3     | 18.84        | -8.8E-9      |
| 3.24              | 14.4E-9     | 35.1E-9      | 863.9E-3   | 122.2E-3     | 18.90        | -7.1E-9      |
| 3.25              | 17.9E-9     | 23.7E-9      | 866.7E-3   | 127.1E-3     | 19.08        | -4.1E-9      |
| 3.22              | 13.1E-9     | 22.7E-9      | 858.1E-3   | 125.8E-3     | 18.97        | -10.4E-9     |
| 3.25              | 12.8E-9     | 26.2E-9      | 860.1E-3   | 128.9E-3     | 18.79        | -9.1E-9      |
| 3.25              | 13.9E-9     | 25.8E-9      | 859.4E-3   | 126.9E-3     | 19.05        | -7.9E-9      |
| 3.36              | 14.4E-9     | 24.9E-9      | 866.4E-3   | 125.6E-3     | 18.70        | -8.8E-9      |
| 3.24              | 16.9E-9     | 25.0E-9      | 861.5E-3   | 127.9E-3     | 18.82        | -10.0E-9     |
| 3.50              | 13.8E-9     | 32.4E-9      | 878.1E-3   | 137.1E-3     | 18.81        | 4.4E-9       |
| 3.24              | 26.3E-9     | 45.5E-9      | 865.7E-3   | 127.6E-3     | 18.97        | -14.9E-9     |
| 3.29              | 21.2E-9     | 34.9E-9      | 866.3E-3   | 124.0E-3     | 19.03        | -19.5E-9     |
| 3.27              | 23.4E-9     | 34.2E-9      | 868.7E-3   | 124.8E-3     | 19.17        | -5.4E-9      |
| 3.32              | 23.5E-9     | 36.4E-9      | 875.8E-3   | 121.9E-3     | 19.10        | 11.1E-9      |
| 3.33              | 18.3E-9     | 33.3E-9      | 863.0E-3   | 123.3E-3     | 19.09        | -11.0E-9     |
| 3.29              | 20.9E-9     | 56.1E-9      | 866.3E-3   | 123.4E-3     | 19.11        | -10.6E-9     |
| 3.28              | 23.1E-9     | 33.2E-9      | 873.3E-3   | 128.8E-3     | 19.28        | -6.2E-9      |
| 3.25              | 19.3E-9     | 33.6E-9      | 867.4E-3   | 127.0E-3     | 19.13        | -14.7E-9     |
| 3.26              | 13.1E-9     | 30.7E-9      | 871.2E-3   | 130.1E-3     | 18.91        | -11.9E-9     |
| 3.26              | 21.7E-9     | 38.2E-9      | 866.8E-3   | 127.7E-3     | 19.24        | -11.1E-9     |
| 3.39              | 20.5E-9     | 32.7E-9      | 876.2E-3   | 126.7E-3     | 18.88        | -12.5E-9     |
| 3.25              | 23.9E-9     | 33.8E-9      | 874.3E-3   | 129.7E-3     | 19.12        | -17.5E-9     |
| 3.37              | 25.1E-9     | 31.5E-9      | 871.1E-3   | 128.0E-3     | 18.80        | -10.6E-9     |

# High Temperature, High Humidity, Reverse Biase (H3TRB)

Mil-Std 750 M 1042-A, 1000hrs, VDS= 520V, 150°C, 85%

Lot 6700

| SN   | Initials     |             |              |            |              |              |              | 1000Hr End Points |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1686 | 3.36         | 17.5E-9     | 39.4E-9      | 869.3E-3   | 127.8E-3     | 18.84        | -3.4E-9      | 3.38              | 19.8E-9     | 49.7E-9      | 872.9E-3   | 128.5E-3     | 18.86        | -3.7E-9      |
| 1687 | 3.29         | 28.7E-9     | 26.1E-9      | 864.2E-3   | 128.8E-3     | 18.99        | 1.1E-9       | 3.29              | 31.4E-9     | 30.3E-9      | 865.1E-3   | 129.0E-3     | 19.01        | 1.2E-9       |
| 1688 | 3.28         | 12.5E-9     | 47.8E-9      | 869.5E-3   | 128.3E-3     | 18.94        | -10.4E-9     | 3.30              | 15.5E-9     | 57.8E-9      | 872.3E-3   | 129.0E-3     | 19.04        | -12.6E-9     |
| 1689 | 3.27         | 13.9E-9     | 33.7E-9      | 869.8E-3   | 127.3E-3     | 18.65        | -11.3E-9     | 3.28              | 14.6E-9     | 40.2E-9      | 871.3E-3   | 127.5E-3     | 18.67        | -13.5E-9     |
| 1690 | 3.28         | 22.6E-9     | 39.0E-9      | 866.6E-3   | 128.3E-3     | 18.89        | -10.9E-9     | 3.30              | 27.3E-9     | 41.7E-9      | 870.4E-3   | 128.6E-3     | 18.99        | -13.1E-9     |
| 1691 | 3.30         | 26.4E-9     | 36.4E-9      | 866.2E-3   | 126.3E-3     | 18.46        | -8.4E-9      | 3.32              | 30.2E-9     | 41.7E-9      | 869.9E-3   | 126.5E-3     | 18.56        | -9.6E-9      |
| 1692 | 3.32         | 18.3E-9     | 43.0E-9      | 873.1E-3   | 125.7E-3     | 18.60        | -5.3E-9      | 3.33              | 19.7E-9     | 50.5E-9      | 877.4E-3   | 126.2E-3     | 18.70        | -5.8E-9      |
| 1693 | 3.30         | 21.4E-9     | 29.7E-9      | 863.8E-3   | 125.3E-3     | 18.46        | -9.5E-9      | 3.31              | 22.2E-9     | 35.5E-9      | 866.8E-3   | 125.7E-3     | 18.52        | -10.0E-9     |
| 1694 | 3.36         | 16.3E-9     | 38.7E-9      | 868.4E-3   | 126.0E-3     | 18.43        | -8.5E-9      | 3.37              | 17.6E-9     | 43.2E-9      | 871.1E-3   | 126.4E-3     | 18.49        | -8.8E-9      |
| 1695 | 3.26         | 16.6E-9     | 26.1E-9      | 868.9E-3   | 126.8E-3     | 18.49        | -10.4E-9     | 3.27              | 20.4E-9     | 32.5E-9      | 871.7E-3   | 127.0E-3     | 18.54        | -10.8E-9     |
| 1696 | 3.57         | 25.5E-9     | 31.3E-9      | 862.0E-3   | 141.9E-3     | 18.22        | -1.6E-9      | 3.57              | 29.1E-9     | 39.1E-9      | 864.2E-3   | 142.6E-3     | 18.26        | -1.8E-9      |
| 1697 | 3.55         | 19.9E-9     | 20.8E-9      | 864.6E-3   | 141.2E-3     | 18.22        | -189.5E-12   | 3.57              | 22.1E-9     | 22.6E-9      | 869.6E-3   | 141.5E-3     | 18.30        | -223.1E-12   |
| 1698 | 3.63         | 19.7E-9     | 24.3E-9      | 867.8E-3   | 142.5E-3     | 18.21        | 4.7E-9       | 3.64              | 21.6E-9     | 30.2E-9      | 869.3E-3   | 143.3E-3     | 18.32        | 5.5E-9       |
| 1699 | 3.56         | 22.4E-9     | 23.2E-9      | 869.9E-3   | 142.2E-3     | 18.07        | 000.0E+0     | 3.57              | 27.0E-9     | 23.7E-9      | 874.1E-3   | 142.6E-3     | 18.16        | 000.0E+0     |
| 1700 | 3.57         | 16.1E-9     | 25.3E-9      | 863.7E-3   | 142.4E-3     | 18.10        | -329.0E-12   | 3.58              | 18.3E-9     | 29.3E-9      | 865.8E-3   | 142.6E-3     | 18.16        | -387.2E-12   |
| 1701 | 3.54         | 23.7E-9     | 22.4E-9      | 860.1E-3   | 142.3E-3     | 18.07        | -496.2E-12   | 3.55              | 28.1E-9     | 23.2E-9      | 862.0E-3   | 142.8E-3     | 18.16        | -624.7E-12   |
| 1702 | 3.55         | 27.8E-9     | 23.7E-9      | 862.1E-3   | 142.2E-3     | 18.21        | -60.2E-12    | 3.57              | 31.2E-9     | 25.4E-9      | 863.6E-3   | 142.6E-3     | 18.30        | -71.7E-12    |
| 1703 | 3.49         | 22.3E-9     | 25.3E-9      | 865.1E-3   | 141.3E-3     | 18.19        | 1.3E-9       | 3.50              | 23.1E-9     | 26.6E-9      | 867.1E-3   | 141.5E-3     | 18.27        | 1.7E-9       |
| 1704 | 3.49         | 21.8E-9     | 38.9E-9      | 864.2E-3   | 142.0E-3     | 18.13        | 873.6E-12    | 3.51              | 26.8E-9     | 47.5E-9      | 868.3E-3   | 142.5E-3     | 18.21        | 1.0E-9       |
| 1705 | 3.51         | 24.0E-9     | 21.8E-9      | 866.5E-3   | 138.1E-3     | 18.21        | -114.8E-12   | 3.52              | 28.1E-9     | 26.5E-9      | 870.3E-3   | 138.3E-3     | 18.31        | -139.8E-12   |
| 1706 | 3.50         | 26.4E-9     | 25.8E-9      | 867.8E-3   | 139.7E-3     | 18.26        | -126.2E-12   | 3.51              | 31.6E-9     | 29.0E-9      | 871.9E-3   | 140.3E-3     | 18.32        | -143.6E-12   |
| 1707 | 3.53         | 20.1E-9     | 24.8E-9      | 866.0E-3   | 137.3E-3     | 18.14        | -210.6E-12   | 3.53              | 21.2E-9     | 27.3E-9      | 870.8E-3   | 138.0E-3     | 18.17        | -239.1E-12   |
| 1708 | 3.51         | 19.1E-9     | 20.8E-9      | 869.2E-3   | 137.6E-3     | 18.26        | -801.1E-12   | 3.53              | 21.7E-9     | 23.1E-9      | 873.9E-3   | 138.1E-3     | 18.34        | -910.3E-12   |
| 1709 | 3.54         | 18.5E-9     | 25.1E-9      | 860.5E-3   | 135.9E-3     | 18.14        | -317.8E-12   | 3.55              | 22.4E-9     | 25.7E-9      | 863.5E-3   | 136.5E-3     | 18.22        | -341.5E-12   |
| 1710 | 3.31         | 16.6E-9     | 18.7E-9      | 862.4E-3   | 121.8E-3     | 18.63        | -8.4E-9      | 3.32              | 20.7E-9     | 20.6E-9      | 865.7E-3   | 122.4E-3     | 18.71        | -10.0E-9     |
| 1711 | 3.31         | 15.6E-9     | 18.5E-9      | 860.9E-3   | 121.0E-3     | 18.59        | -7.2E-9      | 3.32              | 19.3E-9     | 20.1E-9      | 863.8E-3   | 121.5E-3     | 18.69        | -8.2E-9      |

**High Temperature, High Humidity, Reverse Biase (H3TRB)****Mil-Std 750 M 1042-A, 1000hrs, VDS= 520V, 150°C, 85%****Lot 6700**

| SN   | Initials     |             |              |            |              |              |              | 1000Hr End Points |             |              |            |              |              |              |
|------|--------------|-------------|--------------|------------|--------------|--------------|--------------|-------------------|-------------|--------------|------------|--------------|--------------|--------------|
|      | VTH<br>250uA | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V | VTH<br>250uA      | IGSS<br>30V | IDSS<br>600V | VSD<br>15A | RDSON<br>10V | GFS<br>17.5A | IGSS<br>-30V |
| 1712 | 3.28         | 16.8E-9     | 19.1E-9      | 857.4E-3   | 123.2E-3     | 18.56        | -7.4E-9      | 3.29              | 20.9E-9     | 20.5E-9      | 858.6E-3   | 123.9E-3     | 18.63        | -8.1E-9      |
| 1713 | 3.25         | 19.4E-9     | 18.4E-9      | 862.7E-3   | 120.8E-3     | 18.57        | -7.9E-9      | 3.26              | 20.2E-9     | 20.6E-9      | 865.6E-3   | 121.4E-3     | 18.59        | -8.1E-9      |
| 1714 | 3.29         | 13.6E-9     | 18.3E-9      | 856.5E-3   | 119.7E-3     | 18.63        | -7.0E-9      | 3.30              | 14.7E-9     | 21.0E-9      | 858.1E-3   | 120.1E-3     | 18.67        | -7.3E-9      |
| 1715 | 3.28         | 18.3E-9     | 20.9E-9      | 862.4E-3   | 121.5E-3     | 18.67        | -7.9E-9      | 3.29              | 21.4E-9     | 25.1E-9      | 863.9E-3   | 121.9E-3     | 18.71        | -9.8E-9      |
| 1716 | 3.22         | 21.0E-9     | 17.2E-9      | 861.9E-3   | 120.8E-3     | 18.73        | -8.0E-9      | 3.23              | 21.8E-9     | 21.3E-9      | 863.3E-3   | 121.5E-3     | 18.76        | -9.2E-9      |
| 1717 | 3.25         | 17.2E-9     | 19.4E-9      | 858.6E-3   | 120.7E-3     | 18.70        | -7.9E-9      | 3.25              | 19.8E-9     | 22.7E-9      | 861.0E-3   | 120.8E-3     | 18.75        | -9.9E-9      |
| 1718 | 3.18         | 16.7E-9     | 34.3E-9      | 856.9E-3   | 123.3E-3     | 18.96        | -9.3E-9      | 3.20              | 17.2E-9     | 35.7E-9      | 860.4E-3   | 123.9E-3     | 18.99        | -10.3E-9     |
| 1719 | 3.29         | 17.1E-9     | 19.1E-9      | 861.5E-3   | 119.8E-3     | 18.75        | -4.3E-9      | 3.29              | 19.5E-9     | 22.7E-9      | 866.1E-3   | 120.0E-3     | 18.78        | -4.9E-9      |
| 1720 | 3.17         | 17.6E-9     | 22.4E-9      | 854.1E-3   | 123.9E-3     | 18.93        | -10.0E-9     | 3.19              | 21.6E-9     | 26.1E-9      | 855.6E-3   | 124.2E-3     | 19.00        | -10.7E-9     |
| 1721 | 3.23         | 16.2E-9     | 19.3E-9      | 858.3E-3   | 122.2E-3     | 18.65        | -6.3E-9      | 3.24              | 17.3E-9     | 22.1E-9      | 859.4E-3   | 122.9E-3     | 18.71        | -7.2E-9      |
| 1722 | 3.21         | 19.3E-9     | 19.1E-9      | 858.9E-3   | 130.0E-3     | 18.94        | -8.8E-9      | 3.22              | 22.5E-9     | 19.6E-9      | 861.3E-3   | 130.4E-3     | 19.03        | -10.2E-9     |
| 1723 | 3.22         | 12.7E-9     | 20.6E-9      | 861.6E-3   | 131.3E-3     | 18.75        | -7.8E-9      | 3.24              | 14.9E-9     | 22.1E-9      | 862.9E-3   | 131.7E-3     | 18.83        | -8.7E-9      |
| 1724 | 3.27         | 14.1E-9     | 17.6E-9      | 859.1E-3   | 131.8E-3     | 18.81        | -6.5E-9      | 3.27              | 16.1E-9     | 22.0E-9      | 863.1E-3   | 132.2E-3     | 18.87        | -8.0E-9      |
| 1725 | 3.33         | 20.5E-9     | 23.4E-9      | 858.4E-3   | 128.3E-3     | 18.62        | -5.6E-9      | 3.35              | 20.9E-9     | 27.1E-9      | 859.7E-3   | 128.8E-3     | 18.71        | -6.6E-9      |
| 1726 | 3.27         | 15.0E-9     | 27.6E-9      | 863.9E-3   | 129.3E-3     | 18.67        | 1.4E-9       | 3.28              | 17.7E-9     | 31.0E-9      | 867.9E-3   | 130.1E-3     | 18.76        | 1.6E-9       |
| 1727 | 3.36         | 21.3E-9     | 24.6E-9      | 861.5E-3   | 126.4E-3     | 18.44        | 3.5E-9       | 3.38              | 23.2E-9     | 27.7E-9      | 866.3E-3   | 126.6E-3     | 18.50        | 4.0E-9       |
| 1728 | 3.20         | 11.4E-9     | 22.2E-9      | 856.8E-3   | 123.6E-3     | 19.18        | -8.8E-9      | 3.22              | 13.4E-9     | 25.7E-9      | 859.8E-3   | 124.3E-3     | 19.22        | -10.1E-9     |
| 1729 | 3.29         | 11.7E-9     | 24.9E-9      | 855.3E-3   | 128.6E-3     | 18.55        | -6.3E-9      | 3.30              | 12.5E-9     | 28.0E-9      | 856.6E-3   | 129.2E-3     | 18.61        | -6.3E-9      |
| 1730 | 3.22         | 15.5E-9     | 20.0E-9      | 858.9E-3   | 123.3E-3     | 18.86        | -7.7E-9      | 3.23              | 16.2E-9     | 21.9E-9      | 861.2E-3   | 123.8E-3     | 18.88        | -9.1E-9      |
| 1731 | 3.23         | 10.8E-9     | 21.7E-9      | 862.4E-3   | 124.9E-3     | 19.08        | -3.7E-9      | 3.24              | 13.0E-9     | 25.5E-9      | 866.2E-3   | 125.3E-3     | 19.11        | -3.8E-9      |
| 1732 | 3.26         | 15.4E-9     | 25.4E-9      | 860.9E-3   | 123.1E-3     | 18.70        | -7.3E-9      | 3.28              | 17.7E-9     | 29.3E-9      | 862.8E-3   | 123.6E-3     | 18.80        | -8.7E-9      |
| 1733 | 3.19         | 13.6E-9     | 24.6E-9      | 858.7E-3   | 123.6E-3     | 18.90        | -8.6E-9      | 3.19              | 15.5E-9     | 30.9E-9      | 860.8E-3   | 124.3E-3     | 18.97        | -9.8E-9      |
| 1734 | 3.25         | 14.7E-9     | 21.5E-9      | 854.9E-3   | 123.7E-3     | 18.81        | -9.1E-9      | 3.26              | 17.0E-9     | 23.3E-9      | 859.9E-3   | 123.9E-3     | 18.90        | -10.7E-9     |
| 1735 | 3.25         | 17.6E-9     | 20.5E-9      | 859.5E-3   | 123.7E-3     | 18.63        | -8.1E-9      | 3.26              | 20.2E-9     | 23.3E-9      | 864.5E-3   | 124.4E-3     | 18.65        | -8.6E-9      |
| 1736 | 3.23         | 17.2E-9     | 23.1E-9      | 861.4E-3   | 123.6E-3     | 18.84        | -8.7E-9      | 3.24              | 18.2E-9     | 28.3E-9      | 865.9E-3   | 124.1E-3     | 18.91        | -10.1E-9     |

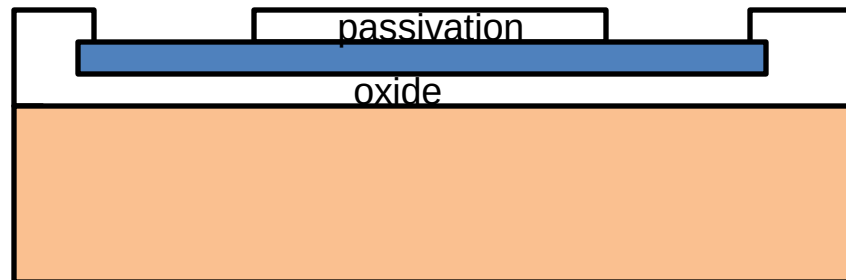
# ***MOSFET ELECTROMIGRATION***

# Electromigration Test Structure

Metal Resistor (5 $\mu$ m width)



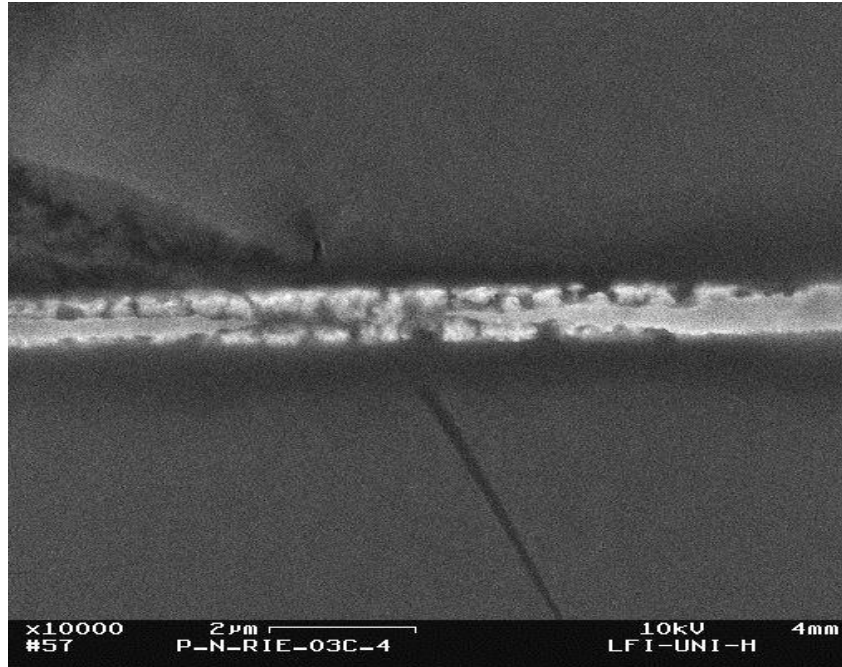
Top View



Cross-sectional View



# Electromigration



Metal diffusion in the direction of current flow  
Diffusion flux dependent on temperature, current, stress  
Failure mechanism is an increase in resistance or an open circuit  
DC current is the worst case.  
Pulsed current and AC current is less stressful

# Electromigration Reliability

$$MTTF = A (J)^{-n} e^{\frac{E_a}{kT}}$$

- A Empirical Constant
- J Current Density
- n Empirical Exponent Between 1-7; Typically = 2
- K Boltzmann's Constant
- Ea Activation Energy
- T Temperature (K)

\* J. R. Black proposed this empirical model to estimate the MTTF of a wire

# Electromigration Reliability

Activation Energy is Dependent on Metal Grain Size and Material Composition

Larger Grain Size increases activation energy (improves MTTF)

The addition of Cu increases the activation energy (improves MTTF)

For pure Al, 0.1 – 2  $\mu\text{m}$  grain size,  $E_a = 0.35 - 0.60 \text{ eV}^*$

For pure Al, 6 – 8  $\mu\text{m}$  grain size,  $E_a = 1.0 - 1.2 \text{ eV}^*$

For Al with 0.3 – 5% Cu, 1 – 6  $\mu\text{m}$  grain size,  $E_a = 0.5 - 0.8 \text{ eV}^*$

For Al-Cu-Si, 0.25 – 0.6  $\mu\text{m}$  grain size,  $E_a = 0.25 - 0.86 \text{ eV}^*$

\* Scorzoni, Neri, Caprile, and Fantini, Materials Science Reports 7, 143 (1991)

# Electromigration Reliability

## Electromigration Data from OMRON YASU FAB

| Ts          | Js                   | W              | t                  | Max Current<br>for 10 year life | Max Current<br>Density for 10<br>year life |
|-------------|----------------------|----------------|--------------------|---------------------------------|--------------------------------------------|
| Temperature | Test Current Density | Metal<br>Width | Metal<br>Thickness | Current / W                     | Current / W * t                            |
| C           | mA/um2               | um             | um                 | mA/um                           | mA/um2                                     |
| 250         | 15                   | 5              | 2                  | 4.99                            | 2.5                                        |

- EM data measured from a product with similar metal structure
- Allowable current is calculated for a 0.1% failure rate at EOL (10 years)

# Electromigration Reliability

Model Description from OMRON YASU FAB

Test Conditions :  $T = 250^{\circ}\text{C}$ ,  $J = 15\text{mA} / \mu\text{m}^2$

$t(50)$  and  $\sigma$  are calculated assuming a Lognormal Distribution

$$t_{50} = 56.3 \text{ hours}, \sigma = 0.44$$

Black's Law used to model EM failure rate

$$t_{50} = (A/J^n)\exp(E_a/KT)$$

Where

$t_{50}$  = MTTF (mean time to fail)

$A$  = Empirical Constant

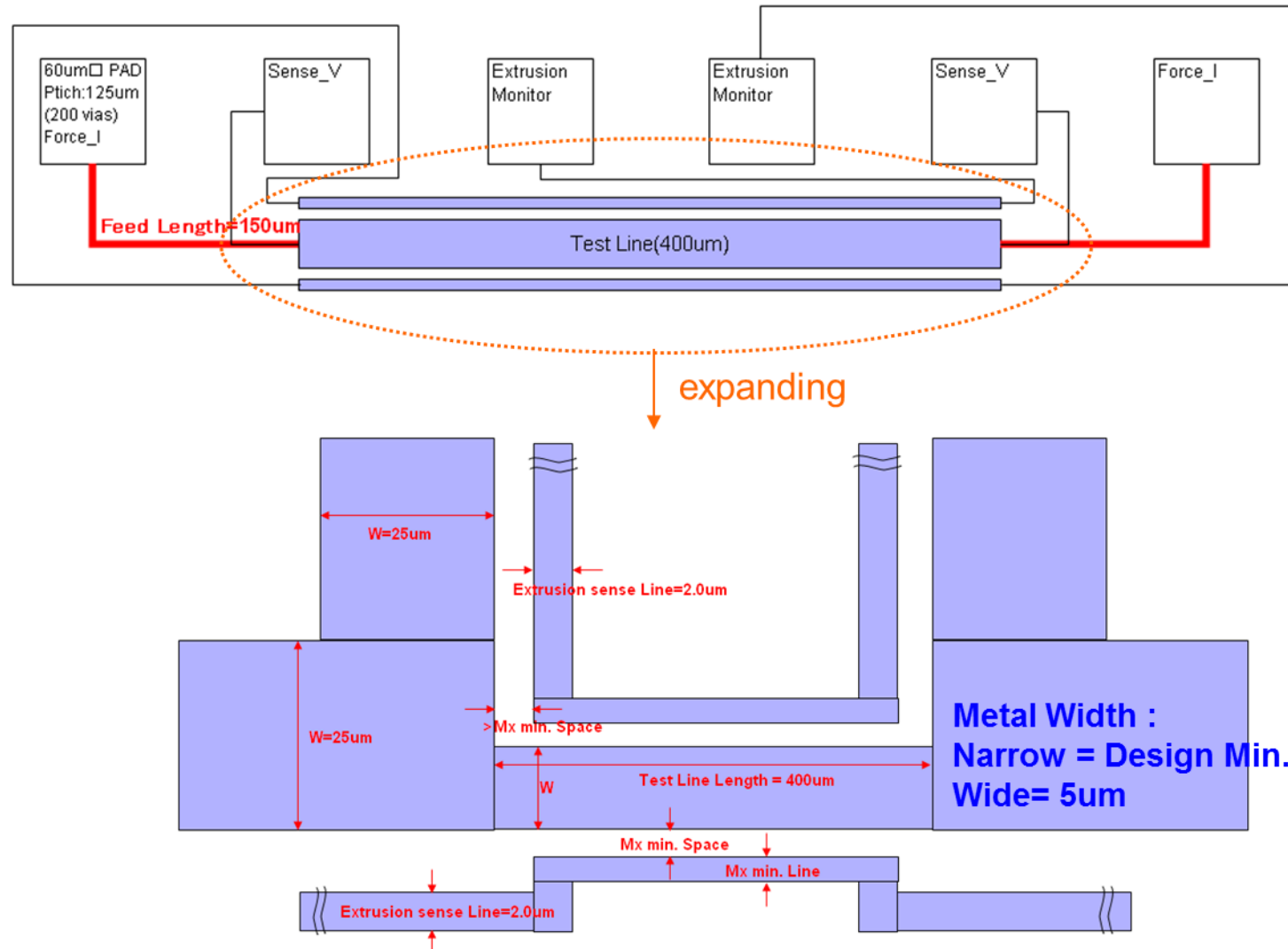
$J$  = Current Density

$n$  = Empirical Current Density Exponent = 2

$E_a$  = EM Activation Energy = 0.50 eV

$K$  = Boltzmann's Constant

$T$  = Temperature (K)



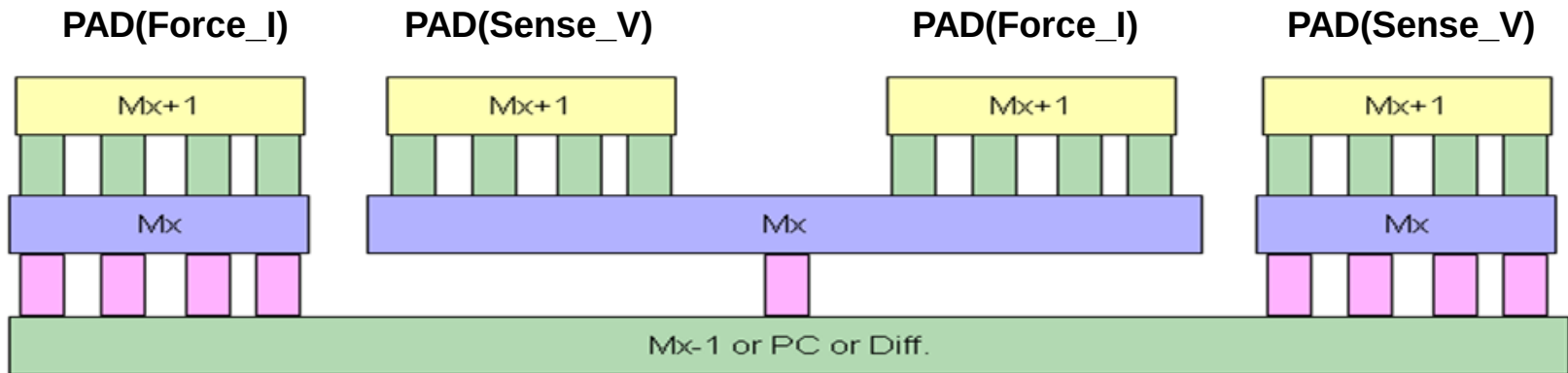
# 2um Thick, 5um Wide Metal Line

## EM Test Data Summary

### 2um Thick, 5um Wide

| #   | 175°C   |            | 200°C   |            | 250°C   |            |
|-----|---------|------------|---------|------------|---------|------------|
|     | 400mA   |            | 400mA   |            | 400mA   |            |
|     | 10um**2 | 40mA/um**2 | 10um**2 | 40mA/um**2 | 10um**2 | 40mA/um**2 |
|     | Min     | Hrs        | Min     | Hrs        | Secs    | Min        |
| 1   | 44.78   | 0.75       | 15.88   | 0.26       | 242.5   | 4.04       |
| 2   | 200.52  | 3.34       | 17.77   | 0.30       | 360.0   | 6.00       |
| 3   | 124.20  | 2.07       | 20.68   | 0.34       | 265.0   | 4.42       |
| 4   | 37.63   | 0.63       | 23.18   | 0.39       | 255.0   | 4.25       |
| 5   | 50.97   | 0.85       | 25.98   | 0.43       | 324.5   | 5.41       |
| 6   | 71.30   | 1.19       | 34.14   | 0.57       | 243.0   | 4.05       |
| 7   | 78.20   | 1.30       | 12.47   | 0.21       | 321.5   | 5.36       |
| 8   | 87.97   | 1.47       | 16.43   | 0.27       | 237.5   | 3.96       |
| 9   | 46.40   | 0.77       | 21.25   | 0.35       | 258.5   | 4.31       |
| 10  | 96.13   | 1.60       | 14.28   | 0.24       | 201.5   | 3.36       |
| 11  | 98.60   | 1.64       | 18.81   | 0.31       | 248.0   | 4.13       |
| 12  | 24.82   | 0.41       | 24.97   | 0.42       | 433.5   | 7.23       |
| 13  | 46.13   | 0.77       | 12.29   | 0.20       | 318.0   | 5.30       |
| 14  | 34.62   | 0.58       | 12.56   | 0.21       | 338.5   | 5.64       |
| 15  | 39.58   | 0.66       | 27.31   | 0.46       | 379.5   | 6.33       |
| 16  | 73.33   | 1.22       | 7.81    | 0.13       | 215.5   | 3.59       |
| 17  | 59.10   | 0.99       | 11.52   | 0.19       | 258.0   | 4.30       |
| 18  | 72.63   | 1.21       | 16.52   | 0.28       | 363.5   | 6.06       |
| 19  | 26.28   | 0.44       | 13.87   | 0.23       | 376.0   | 6.27       |
| 20  | 28.18   | 0.47       | 14.43   | 0.24       | 391.5   | 6.53       |
| Max | 200.52  | 3.34       | 34.14   | 0.57       | 433.50  | 7.23       |
| Min | 24.82   | 0.41       | 7.81    | 0.13       | 201.50  | 3.36       |
| Avg | 67.07   | 1.12       | 18.11   | 0.30       | 301.55  | 5.11       |

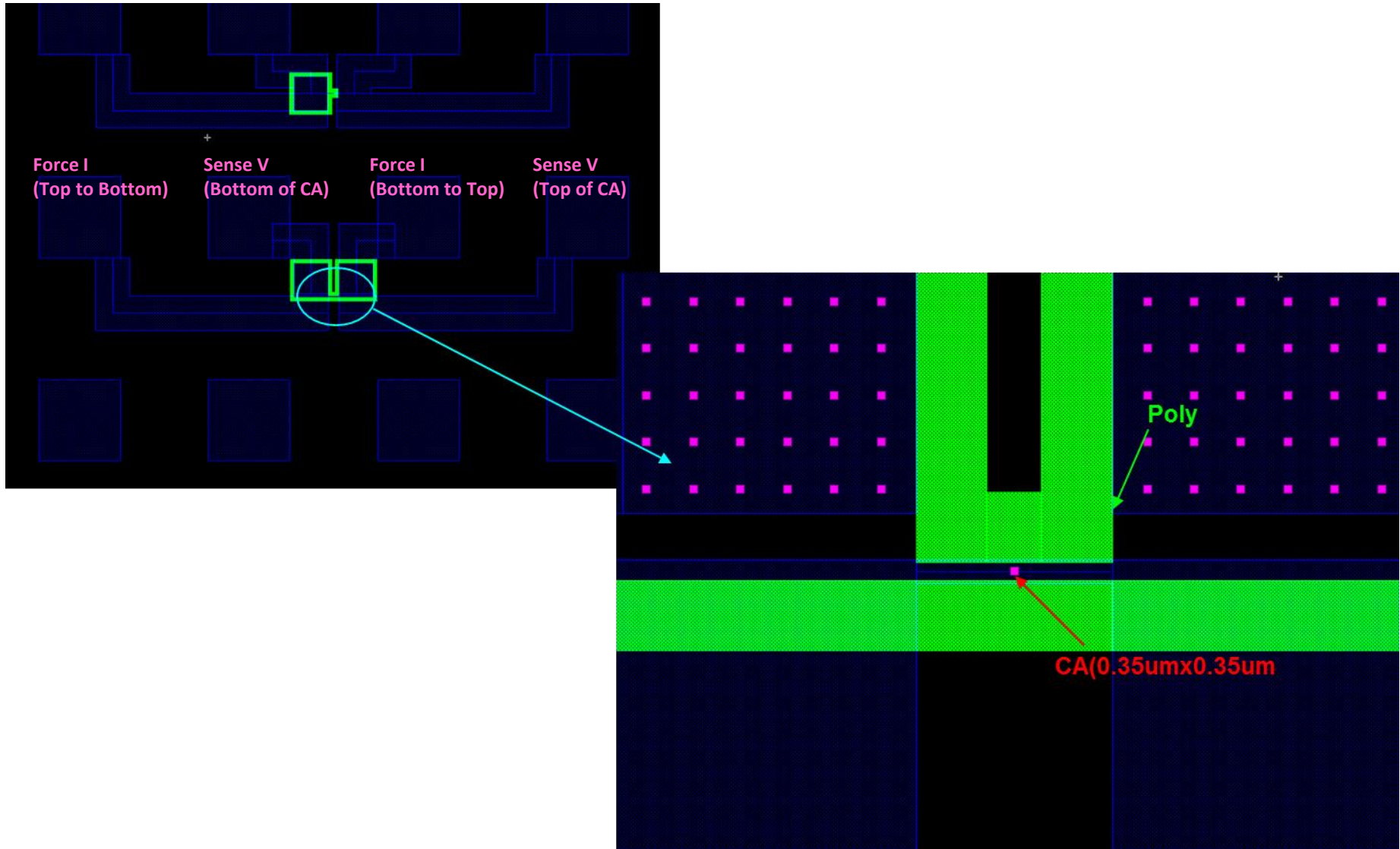
# Single Via 1 - Test Structure







# Single Contact On Diffusion- Test Structure



# Contact on Diffusion - EM Test Data Summary

## Single Contact on Diffusion

| #   | 175°C                     |         | 200°C                     |       | 250°C                     |       | 200°C                     |       |
|-----|---------------------------|---------|---------------------------|-------|---------------------------|-------|---------------------------|-------|
|     | 0.122um**2                | 9.8mA   | 0.122um**2                | 9.8mA | 0.122um**2                | 9.8mA | 0.122um**2                | 11mA  |
|     | Min                       | Hrs     | Min                       | Hrs   | Secs                      | Min   | Secs                      | Min   |
|     | Into Diffusion (+ bottom) |         | Into Diffusion (+ bottom) |       | Into Diffusion (+ bottom) |       | Into Diffusion (+ bottom) |       |
| 1   | 5074.25                   | 84.57   | 16.2                      | 0.27  | 470.00                    | 7.83  | 1236.50                   | 20.61 |
| 2   | 5594.93                   | 93.25   | 31.7                      | 0.53  | 244.50                    | 4.08  | 92.00                     | 1.53  |
| 3   |                           |         | 397.1                     | 6.62  | 61.00                     | 1.02  | 50.50                     | 0.84  |
| 4   |                           |         | 87.1                      | 1.45  | 93.00                     | 1.55  | 10.00                     | 0.17  |
| 5   |                           |         |                           |       | 34.00                     | 0.57  | 19.00                     | 0.32  |
|     | Into Contact (+ in top)   |         | Into Contact (+ in top)   |       | Into Contact (+ in top)   |       | Into Contact (+ in top)   |       |
| 1   |                           |         | 135.52                    | 2.26  | 56.50                     | 0.94  | 148                       | 2.47  |
| 2   |                           |         | 31.23                     | 0.52  | 270.00                    | 4.50  | 25.5                      | 0.43  |
| 3   |                           |         | 49.00                     | 0.82  | 61.50                     | 1.03  | 99.5                      | 1.66  |
| 4   |                           |         |                           |       | 257.50                    | 4.29  | 48.5                      | 0.81  |
| 5   |                           |         |                           |       | 579.00                    | 9.65  | 1207                      | 20.12 |
|     | Into Diffusion            |         | Into Diffusion            |       | Into Diffusion            |       | Into Diffusion            |       |
| Max | 5594.93                   | 93.25   | 397.13                    | 6.62  | 470.00                    | 7.83  | 1236.50                   | 20.61 |
| Min | 5074.25                   | 84.57   | 16.17                     | 0.27  | 34.00                     | 0.57  | 10.00                     | 0.17  |
| Avg | 5334.59                   | 88.91   | 133.02                    | 2.22  | 180.50                    | 3.01  | 281.60                    | 4.69  |
|     | Into Contact              |         | Into Contact              |       | Into Contact              |       | Into Contact              |       |
| Max | 0.00                      | 0.00    | 135.52                    | 2.26  | 579.00                    | 9.65  | 1207.00                   | 20.12 |
| Min | 0.00                      | 0.00    | 31.23                     | 0.52  | 56.50                     | 0.94  | 25.50                     | 0.43  |
| Avg | #DIV/0!                   | #DIV/0! | 71.92                     | 1.20  | 244.90                    | 4.08  | 305.70                    | 5.10  |

# ***Time Dependent Dielectric Breakdown (tddb)***

# ICE20N65FP TDDB

- Gate Oxide Range 550 to 580Å, Measured 567Å
- Temperature = 125

| Gate Bias -54.10V |       |      |  | -56.75 |       | -56.64 |       |
|-------------------|-------|------|--|--------|-------|--------|-------|
| SN                | secs  | min  |  | secs   | min   | secs   | min   |
| • 1               | 155.0 | 2.58 |  | 941    | 15.68 | 3285   | 54.75 |
| • 2               | 160.0 | 2.67 |  | 824    | 13.73 | 2963   | 49.38 |
| • 3               | 165.0 | 2.75 |  | 838    | 13.97 | 3548   | 59.13 |
| • 4               | 125.0 | 2.08 |  | 840    | 14.00 | 3608   | 60.13 |
| • 5               | 191.0 | 3.18 |  | 963    | 16.05 | 3841   | 64.02 |
| • 6               | 127.0 | 2.12 |  | 840    | 14.00 | 3500   | 58.33 |
| • 7               | 189.5 | 3.16 |  | 818    | 13.63 | 4067   | 67.78 |
| • 8               | 123.5 | 2.06 |  | 875    | 14.58 | 3914   | 65.23 |
| • 9               | 143.5 | 2.39 |  | 889    | 14.82 | 4034   | 67.23 |
| • 10              | 163.0 | 2.72 |  | 909    | 15.15 | 4040   | 67.33 |
| • 11              | 204.5 | 3.41 |  | 908    | 15.13 | 4083   | 68.05 |
| • 12              | 163.0 | 2.72 |  | 847    | 14.12 | 4456   | 74.27 |
| • 13              | 207.0 | 3.45 |  | 859    | 14.32 | 3853   | 64.22 |
| • 14              | 168.5 | 2.81 |  | 847    | 14.12 | 3438   | 57.30 |
| • 15              | 190.5 | 3.18 |  | 835    | 13.92 | 3831   | 63.85 |
| • 16              | 189.5 | 3.16 |  | 803    | 13.38 | 3909   | 65.15 |
| • 17              | 168.5 | 2.81 |  | 701    | 11.68 | 4093   | 68.22 |
| • 18              | 207.0 | 3.45 |  | 793    | 13.22 | 4351   | 72.52 |
| • 19              | 170.0 | 2.83 |  | 889    | 14.82 | 3498   | 58.30 |
| • 20              | 166.5 | 2.78 |  | 869    | 14.48 | 3478   | 57.97 |
| • AVG             |       |      |  | 854    | 14.24 | 3790   | 63.16 |

# ICEMOS SUPERJUNCTION PATENT PORTFOLIO

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US7,410,891

US7,439,583

US7,227,197B2

US6,635,906

US6,936,867

US7,015,104

US9,109,110

# ***Unclamped Inductive Switching (UIS)***

# Unclamped Inductive Switching Test Method

The operation of this test circuit is as follows:

1. At time zero, the input gate drive is turned on.
2. The MOSFET then switches on and  $I_D$  current rises to the desired test current at the rate defined by equation (2).

$$di/dt = VDD/L \quad (2)$$

3. Once the desired test current is reached, the gate drive is switched off which abruptly turns off the MOSFET. Since the inductive load current cannot change instantaneously, the EMF of the inductor drives the MOSFET into drain-to-source avalanche (Figure 3).

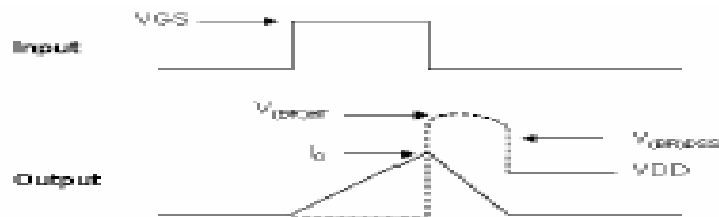


Figure 3. UIS Waveforms

The critical equations resulting from this UIS test circuit are listed below:

$$V_{(BR)eff} = 1.3 * \text{Rated } V_{(BR)DSS} \quad (3)$$

$$t(av) = (I_o * L) / (V_{(BR)eff} - VDD) \quad (4)$$

$$EAS = \frac{1}{2} * I_o * V_{(BR)eff} * t(av) \quad (5)$$

or,

$$EAS = \frac{1}{2} * L * I_o^2 * V_{(BR)eff} / (V_{(BR)eff} - VDD) \quad (6)$$

where,

$V_{(BR)eff}$  = effective drain-to-source breakdown voltage at peak discharge current. Note that  $V_{(BR)eff}$  is much higher than the device's  $V_{(BR)DSS}$  rating found on data sheets. This is because 1) device manufacturers guard-band their specifications and 2) the UIS avalanche current is much higher than that specified for  $V_{(BR)DSS}$  and  $V_{(BR)DSS}$  increases with current and finally 3) the device heats up during UIS and  $V_{(BR)DSS}$  increases with temperature. A value of  $1.3 * V_{(BR)DSS}$  has been found to be a good rule of thumb for  $V_{(BR)eff}$ .

$t(av)$  = time in avalanche

EAS = energy in avalanche, single pulse

$I_o$  = peak current being discharged

L = load inductance

VDD = supply voltage

Another commonly used test circuit for UIS is shown in Figure 4. Its advantage over the previously described test circuit is that it switches out the VDD supply during avalanche by use of a high speed switch (HSW).

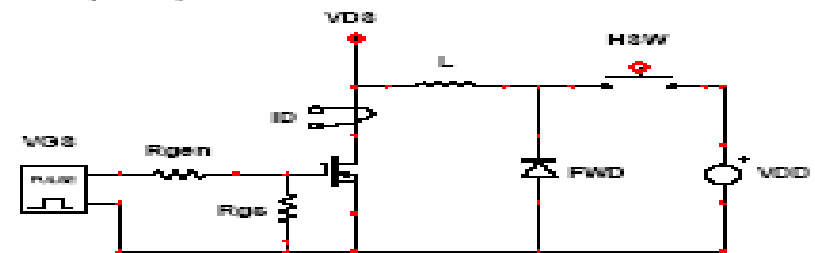


Figure 4. Modified UIS Test Circuit

By switching out the supply voltage during device avalanche, two significant advantages are made available. First, the user can increase the VDD supply beyond the MOSFET's maximum rated  $V_{DS}$ . This speeds up the inductor's initial charge ramp time leading to overall faster test times as well as less device on-state time and therefore less self heating of the device prior to avalanche. Secondly, the UIS test circuit calculations are simplified to the following:

$$t(av) = (I_o * L) / V_{(BR)eff} \quad (7)$$

$$EAS = \frac{1}{2} * L * I_o^2 \quad (8)$$

Both test circuits shown in Figure 3 and 4 are industry recognized test circuits for UIS. They conform to both JEDEC standard No. 24-5 and MIL-STD750D method 3470.2.

Due to the advantages noted, Great Wall Semiconductor uses the test circuit shown in Figure 4. However, actual application circuits used by designers do not usually switch out the VDD supply

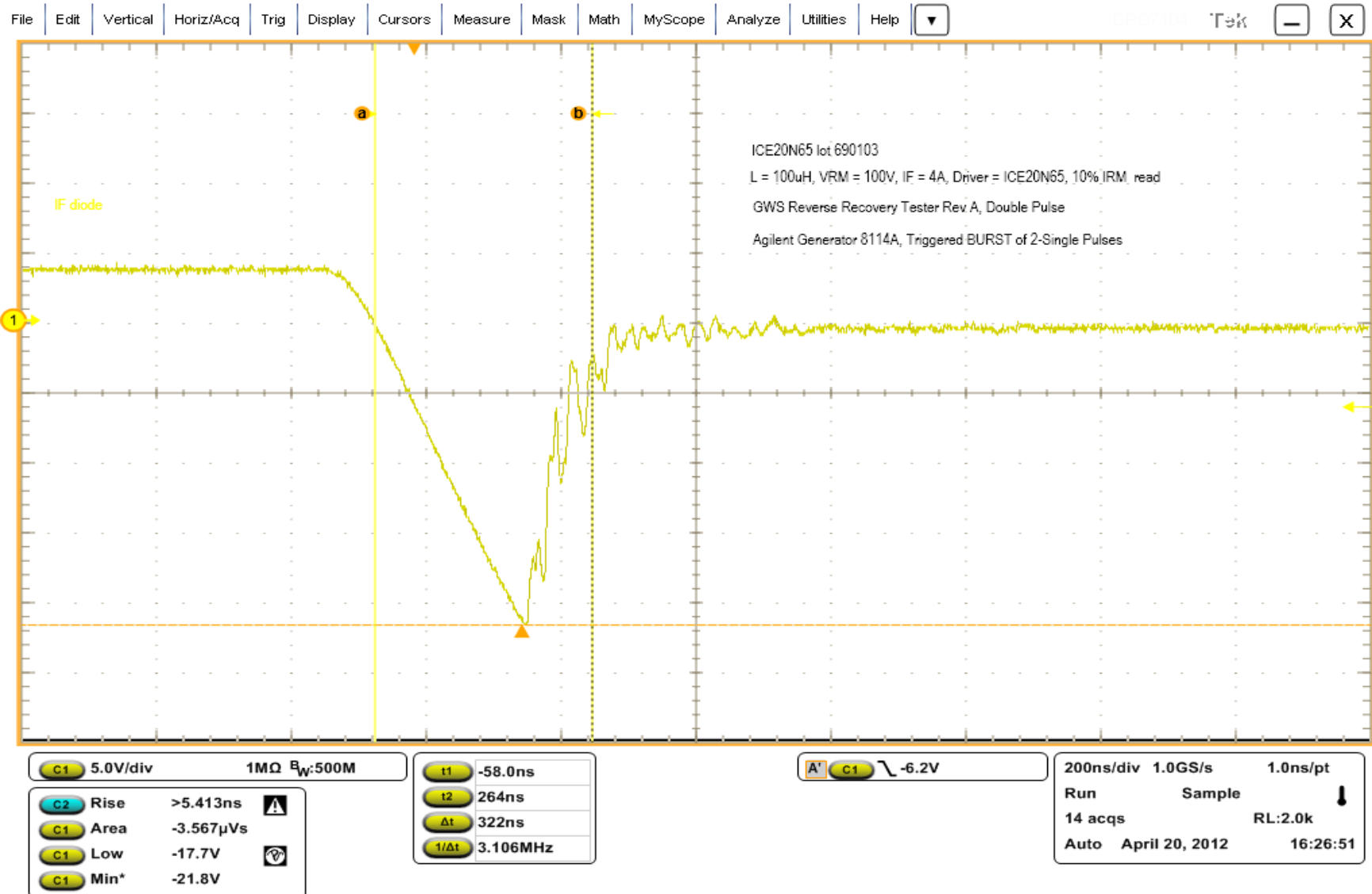


# Unclamped Inductive Switching ICE20N65FP

|          |                    |          |       |  |  |
|----------|--------------------|----------|-------|--|--|
| L =      | 10mH               |          |       |  |  |
| Date =   | 4/9/2012           |          |       |  |  |
| Tester = | ICEMOS Methodology |          |       |  |  |
| Device   | Lot                | Serial # | las   |  |  |
| 20N65    | 6904               | 1        | 25.11 |  |  |
| 20N65    | 6904               | 2        | 26.40 |  |  |
| 20N65    | 6904               | 3        | 26.18 |  |  |
| 20N65    | 6904               | 4        | 26.05 |  |  |
| 20N65    | 6904               | 5        | 25.14 |  |  |
| 20N65    | 6904               | 6        | 25.14 |  |  |
| 20N65    | 6904               | 7        | 26.05 |  |  |
| 20N65    | 6904               | 8        | 26.05 |  |  |
| 20N65    | 6906               | 1        | 27.11 |  |  |
| 20N65    | 6906               | 2        | 27.11 |  |  |
| 20N65    | 6906               | 3        | 26.11 |  |  |
| 20N65    | 6906               | 4        | 26.05 |  |  |
| 20N65    | 6906               | 5        | 26.11 |  |  |
| 20N65    | 6906               | 6        | 25.18 |  |  |
| 20N65    | 6906               | 7        | 25.11 |  |  |
| 20N65    | 6906               | 8        | 26.18 |  |  |
| 20N65    | 6906               | 9        | 26.18 |  |  |
| 20N65    | 6906               | 10       | 25.11 |  |  |

# ***Reverse Recovery (trr)***

# ICE20N65FP body diode Reverse Recovery



## ICE20N65FP body diode Reverse Recovery

| TRR                |          |          |           |          |           |
|--------------------|----------|----------|-----------|----------|-----------|
| VRM = 100V         |          |          |           |          |           |
| L = 100uH          |          |          |           |          |           |
| IF = 4A            |          |          |           |          |           |
| di/dt = 100A/uS    |          |          |           |          |           |
| Meas. Pt = 10% IRM |          |          |           |          |           |
|                    |          |          |           |          |           |
|                    |          |          |           |          |           |
| Device             | Ta<br>nS | Tb<br>nS | Trr<br>nS | IRM<br>A | Qrr<br>nC |
| 15N60C3            | 210      | 84       | 294       | 20       | 3170      |
| 6R190C6            | 266      | 116      | 382       | 25       | 4620      |
| 6R125C6            | 280      | 92       | 372       | 26       | 5110      |
| ICE20N65 690103    | 226      | 96       | 322       | 22       | 3630      |



# ICEMOS SUPERJUNCTION PATENT PORTFOLIO

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