

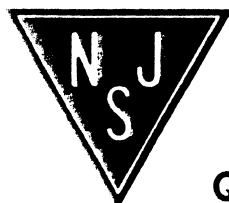
**1N5008A**  
**thru**  
**1N5051A**

**\*MAXIMUM RATINGS**

Junction and Storage Temperatures ..... -65 to 150°C  
DC Power Dissipation ..... 2.5 Watts  
Derating ..... Derate 20mW/°C above 25°C as in Figure 4

**\*ELECTRICAL CHARACTERISTICS @ 25°C unless otherwise noted**

| JEDEC<br>TYPE<br>NUMBER<br>(Note 1) | NOMINAL ZENER<br>VOLTAGE<br>(Note 2) |      | MAXIMUM ZENER IMPEDANCE<br>(Note 3) |                                   |     | MAXIMUM REVERSE<br>LEAKAGE CURRENT |       | Max.<br>Rated<br>Zener<br>Current<br>(Note 4) | Max.<br>Zener<br>Surge<br>Current<br>(Note 5) | TYPICAL<br>TEMP.<br>COEFF. OF<br>ZENER<br>VOLTAGE |
|-------------------------------------|--------------------------------------|------|-------------------------------------|-----------------------------------|-----|------------------------------------|-------|-----------------------------------------------|-----------------------------------------------|---------------------------------------------------|
|                                     | V <sub>Z</sub> @ I <sub>ZT</sub>     |      | Z <sub>zT</sub> @ I <sub>ZT</sub>   | Z <sub>zK</sub> @ I <sub>zK</sub> |     | I <sub>R</sub> @ V <sub>R</sub>    |       | I <sub>ZM</sub>                               | I <sub>s</sub>                                |                                                   |
|                                     | VOLTS                                | mA   | OHMS                                | OHMS                              | mA  | μA                                 | VOLTS | mA                                            | AMPS                                          |                                                   |
| 1N5008A                             | 3.3                                  | 189  | 6.0                                 | 400                               | 1.0 | 100                                | 1.0   | 722                                           | 6.0                                           | -.066                                             |
| 1N5009A                             | 3.6                                  | 173  | 5.5                                 | 400                               | 1.0 | 100                                | 1.0   | 661                                           | 5.5                                           | -.058                                             |
| 1N5010A                             | 3.9                                  | 160  | 5.0                                 | 400                               | 1.0 | 100                                | 1.0   | 612                                           | 5.1                                           | -.046                                             |
| 1N5011A                             | 4.3                                  | 145  | 4.0                                 | 400                               | 1.0 | 100                                | 1.0   | 555                                           | 4.6                                           | -.033                                             |
| 1N5012A                             | 4.7                                  | 133  | 3.5                                 | 500                               | 1.0 | 50                                 | 1.0   | 507                                           | 4.2                                           | ±.015                                             |
| 1N5013A                             | 5.1                                  | 122  | 3.0                                 | 550                               | 1.0 | 10                                 | 1.0   | 467                                           | 3.9                                           | ±.010                                             |
| 1N5014A                             | 5.6                                  | 111  | 2.5                                 | 600                               | 1.0 | 10                                 | 2.0   | 425                                           | 3.5                                           | + .030                                            |
| 1N5015A                             | 6.2                                  | 101  | 3.0                                 | 700                               | 1.0 | 10                                 | 3.0   | 384                                           | 3.3                                           | + .049                                            |
| 1N5016A                             | 6.8                                  | 92.0 | 1.6                                 | 700                               | 1.0 | 150                                | 5.2   | 350                                           | 18.0                                          | .040                                              |
| 1N5017A                             | 7.5                                  | 83.0 | 1.8                                 | 700                               | .5  | 50                                 | 5.7   | 318                                           | 16.0                                          | .045                                              |
| 1N5018A                             | 8.2                                  | 76.0 | 2.1                                 | 700                               | .5  | 10                                 | 6.2   | 290                                           | 15.0                                          | .048                                              |
| 1N5019A                             | 9.1                                  | 69.0 | 2.4                                 | 700                               | .5  | 10                                 | 6.9   | 262                                           | 13.0                                          | .050                                              |
| 1N5020A                             | 10.0                                 | 62.0 | 3.0                                 | 700                               | .25 | 10                                 | 7.6   | 238                                           | 12.0                                          | .055                                              |
| 1N5021A                             | 11.0                                 | 57.0 | 3.6                                 | 700                               | .25 | 10                                 | 8.4   | 216                                           | 11.0                                          | .060                                              |
| 1N5022A                             | 12.0                                 | 52.0 | 4.2                                 | 700                               | .25 | 10                                 | 9.1   | 198                                           | 10.0                                          | .065                                              |
| 1N5023A                             | 13.0                                 | 48.0 | 4.8                                 | 700                               | .25 | 10                                 | 9.9   | 183                                           | 9.6                                           | .065                                              |
| 1N5024A                             | 14.0                                 | 45.0 | 5.4                                 | 700                               | .25 | 10                                 | 10.6  | 170                                           | 8.9                                           | .070                                              |
| 1N5025A                             | 15.0                                 | 42.0 | 6.0                                 | 700                               | .25 | 10                                 | 11.4  | 159                                           | 8.3                                           | .070                                              |
| 1N5026A                             | 16.0                                 | 39.0 | 6.6                                 | 700                               | .25 | 10                                 | 12.2  | 149                                           | 7.8                                           | .070                                              |
| 1N5027A                             | 17.0                                 | 37.0 | 7.2                                 | 700                               | .25 | 10                                 | 12.9  | 140                                           | 7.3                                           | .075                                              |
| 1N5028A                             | 18.0                                 | 35.0 | 7.8                                 | 750                               | .25 | 10                                 | 13.7  | 132                                           | 6.9                                           | .075                                              |
| 1N5029A                             | 19.0                                 | 33.0 | 8.4                                 | 750                               | .25 | 10                                 | 14.4  | 125                                           | 6.5                                           | .075                                              |
| 1N5030A                             | 20.0                                 | 31.0 | 9.0                                 | 750                               | .25 | 10                                 | 15.2  | 119                                           | 6.2                                           | .075                                              |
| 1N5031A                             | 22.0                                 | 28.0 | 9.6                                 | 750                               | .25 | 10                                 | 16.7  | 108                                           | 5.6                                           | .080                                              |
| 1N5032A                             | 24.0                                 | 26.0 | 10.0                                | 750                               | .25 | 10                                 | 18.2  | 99                                            | 5.2                                           | .080                                              |
| 1N5033A                             | 25.0                                 | 25.0 | 11.0                                | 750                               | .25 | 10                                 | 19.0  | 99                                            | 5.0                                           | .080                                              |
| 1N5034A                             | 27.0                                 | 23.0 | 12.0                                | 750                               | .25 | 10                                 | 20.5  | 88                                            | 4.6                                           | .085                                              |
| 1N5035A                             | 30.0                                 | 21.0 | 15.0                                | 1000                              | .25 | 10                                 | 22.8  | 79                                            | 4.1                                           | .085                                              |
| 1N5036A                             | 33.0                                 | 19.0 | 18.0                                | 1000                              | .25 | 10                                 | 25.1  | 72                                            | 3.7                                           | .085                                              |
| 1N5037A                             | 36.0                                 | 17.0 | 21.0                                | 1000                              | .25 | 10                                 | 27.4  | 66                                            | 3.4                                           | .085                                              |
| 1N5038A                             | 39.0                                 | 16.0 | 24.0                                | 1000                              | .25 | 10                                 | 29.6  | 61                                            | 3.2                                           | .090                                              |
| 1N5039A                             | 43.0                                 | 15.0 | 27.0                                | 1500                              | .25 | 10                                 | 32.7  | 55                                            | 2.9                                           | .090                                              |
| 1N5040A                             | 45.0                                 | 14.0 | 30.0                                | 1500                              | .25 | 10                                 | 34.2  | 53                                            | 2.7                                           | .090                                              |
| 1N5041A                             | 47.0                                 | 13.0 | 33.0                                | 1500                              | .25 | 10                                 | 35.7  | 50                                            | 2.6                                           | .090                                              |
| 1N5042A                             | 50.0                                 | 12.0 | 36.0                                | 1500                              | .25 | 10                                 | 38.0  | 47                                            | 2.5                                           | .090                                              |



Quality Semi-Conductors