

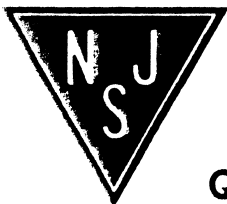
1N5008A
thru
1N5051A

***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 TYPE NUMBER (Note 1) | NOMINAL ZENER VOLTAGE (Note 2) | | MAXIMUM ZENER IMPEDANCE (Note 3) | | | MAXIMUM REVERSE LEAKAGE CURRENT | | Max. Rated Zener Current (Note 4) | Max. Zener Surge Current (Note 5) | TYPICAL TEMP. COEFF. OF ZENER VOLTAGE |
|-------------------------------------|--------------------------------------|------|-------------------------------------|-----------------------------------|-----|------------------------------------|-------|---|---|---|
| | V _Z @ I _{ZT} | | Z _{ZT} @ I _{ZT} | Z _{ZK} @ I _{ZK} | | I _R @ V _R | | I _{ZM} | I _S | |
| | 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