

# ZENER DIODES

## 2.5 WATT

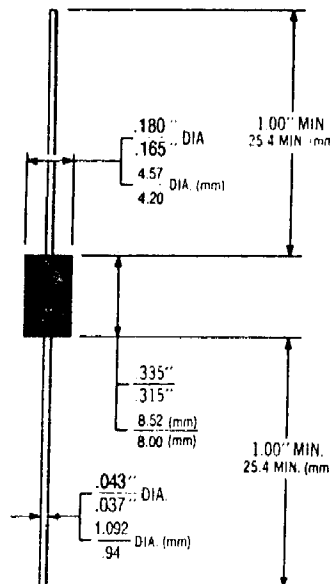
| JEDEC<br>TYPE<br>NUMBER † | NOMINAL<br>ZENER<br>VOLTAGE<br>V <sub>Z</sub><br>VOLTS | TEST<br>CURRENT<br>I <sub>ZT</sub><br>mA | MAXIMUM ZENER IMPEDANCE                   |                         |                         | MAXIMUM REVERSE<br>LEAKAGE CURRENT<br>I <sub>R</sub> @ V <sub>R</sub><br>@ 25°C<br>μA VOLTS |                         | MAXIMUM<br>DC ZENER<br>CURRENT<br>I <sub>ZM</sub><br>mA | TYPICAL<br>TEMPERATURE<br>COEFFICIENT<br>@ I <sub>ZT</sub><br>%/°C | MAXIMUM<br>SURGE<br>CURRENT<br>I <sub>S</sub><br>AMPS |
|---------------------------|--|--|---|-------------------------|-------------------------|---|-------------------------|---|--|---|
|                           |  |  | Z <sub>ZT</sub> @ I <sub>ZT</sub><br>Ohms | Z <sub>ZK</sub><br>Ohms | @ I <sub>ZK</sub><br>mA | I <sub>R</sub> @ V <sub>R</sub><br>μA   | V <sub>R</sub><br>VOLTS |   |  |   |
| 1N5017A                   | 7.5  | 83.0                                     | 1.8                                       | 700                     | .5                      | 50  | 5.7                     | 318   | .045   | 16.0  |
| 1N5018A                   | 8.2  | 76.0                                     | 2.1                                       | 700                     | .5                      | 10  | 6.2                     | 290   | .048   | 15.0  |
| 1N5019A                   | 9.1  | 69.0                                     | 2.4                                       | 700                     | .5                      | 10  | 6.9                     | 262   | .050   | 13.0  |
| 1N5020A                   | 10.0   | 62.0                                     | 3.0                                       | 700                     | .25                     | 10  | 7.6                     | 238   | .055   | 12.0  |
| 1N5021A                   | 11.0   | 57.0                                     | 3.6                                       | 700                     | .25                     | 10  | 8.4                     | 216   | .060   | 11.0  |
| 1N5022A                   | 12.0   | 52.0                                     | 4.2                                       | 700                     | .25                     | 10  | 9.1                     | 198   | .065   | 10.0  |
| 1N5023A                   | 13.0   | 48.0                                     | 4.8                                       | 700                     | .25                     | 10  | 9.9                     | 183   | .065   | 9.6   |
| 1N5024A                   | 14.0   | 45.0                                     | 5.4                                       | 700                     | .25                     | 10  | 10.6                    | 170   | .070   | 8.9   |
| 1N5025A                   | 15.0   | 42.0                                     | 6.0                                       | 700                     | .25                     | 10  | 11.4                    | 159   | .070   | 8.3   |
| 1N5026A                   | 16.0   | 39.0                                     | 6.6                                       | 700                     | .25                     | 10  | 12.2                    | 149   | .070   | 7.8   |
| 1N5027A                   | 17.0   | 37.0                                     | 7.2                                       | 700                     | .25                     | 10  | 12.9                    | 140   | .075   | 7.3   |
| 1N5028A                   | 18.0   | 35.0                                     | 7.8                                       | 750                     | .25                     | 10  | 13.7                    | 132   | .075   | 6.9   |
| 1N5029A                   | 19.0   | 33.0                                     | 8.4                                       | 750                     | .25                     | 10  | 14.4                    | 125   | .075   | 6.5   |
| 1N5030A                   | 20.0   | 31.0                                     | 9.0                                       | 750                     | .25                     | 10  | 15.2                    | 119   | .075   | 6.2   |
| 1N5031A                   | 22.0   | 28.0                                     | 9.6                                       | 750                     | .25                     | 10  | 16.7                    | 108   | .080   | 5.6   |
| 1N5032A                   | 24.0   | 26.0                                     | 10.0                                      | 750                     | .25                     | 10  | 18.2                    | 99  | .080   | 5.2   |
| 1N5033A                   | 25.0   | 25.0                                     | 11.0                                      | 750                     | .25                     | 10  | 19.0                    | 99  | .085   | 5.0   |
| 1N5034A                   | 27.0   | 23.0                                     | 12.0                                      | 750                     | .25                     | 10  | 20.5                    | 88  | .085   | 4.6   |
| 1N5035A                   | 30.0   | 21.0                                     | 15.0                                      | 1000                    | .25                     | 10  | 22.8                    | 79  | .085   | 4.1   |
| 1N5036A                   | 33.0   | 19.0                                     | 18.0                                      | 1000                    | .25                     | 10  | 25.1                    | 72  | .085   | 3.7   |
| 1N5037A                   | 36.0   | 17.0                                     | 21.0                                      | 1000                    | .25                     | 10  | 27.4                    | 66  | .085   | 3.4   |
| 1N5038A                   | 39.0   | 16.0                                     | 24.0                                      | 1000                    | .25                     | 10  | 29.6                    | 61  | .090   | 3.2   |
| 1N5039A                   | 43.0   | 15.0                                     | 27.0                                      | 1500                    | .25                     | 10  | 32.7                    | 55  | .090   | 2.9   |
| 1N5040A                   | 45.0   | 14.0                                     | 30.0                                      | 1500                    | .25                     | 10  | 34.2                    | 53  | .090   | 2.7   |
| 1N5041A                   | 47.0   | 13.0                                     | 33.0                                      | 1500                    | .25                     | 10  | 35.7                    | 50  | .090   | 2.6   |
| 1N5042A                   | 50.0   | 12.0                                     | 36.0                                      | 1500                    | .25                     | 10  | 38.0                    | 47  | .090   | 2.5   |
| 1N5043A                   | 51.0   | 12.0                                     | 36.0                                      | 1500                    | .25                     | 10  | 38.8                    | 46  | .090   | 2.4   |
| 1N5044A                   | 52.0   | 12.0                                     | 39.0                                      | 2000                    | .25                     | 10  | 39.5                    | 45  | .090   | 2.4   |
| 1N5045A                   | 56.0   | 11.0                                     | 45.0                                      | 2000                    | .25                     | 10  | 42.6                    | 42  | .090   | 2.2   |
| 1N5046A                   | 62.0   | 10.0                                     | 51.0                                      | 2000                    | .25                     | 10  | 47.1                    | 38  | .090   | 2.0   |
| 1N5047A                   | 68.0   | 9.2                                      | 57.0                                      | 2000                    | .25                     | 10  | 51.7                    | 35  | .090   | 1.8   |
| 1N5048A                   | 75.0   | 8.3                                      | 66.0                                      | 2000                    | .25                     | 10  | 57.0                    | 31  | .090   | 1.6   |
| 1N5049A                   | 82.0   | 7.6                                      | 78.0                                      | 3000                    | .25                     | 10  | 62.3                    | 29  | .090   | 1.5   |
| 1N5050A                   | 91.0   | 6.9                                      | 90.0                                      | 3000                    | .25                     | 10  | 69.2                    | 26  | .090   | 1.3   |
| 1N5051A                   | 100.0  | 6.2                                      | 120.0                                     | 3000                    | .25                     | 10  | 76.0                    | 23  | .090   | 1.2   |

V<sub>F</sub> = 1.2 Volts max. @ 500 mA

Polarity - Banded End Positive

† Non Suffix V<sub>Z</sub> = ±10%

A Suffix V<sub>Z</sub> = ±5%



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