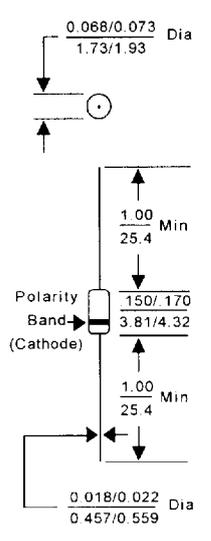


# ZENER DIODES, GLASS PACKAGE, GENERAL PURPOSE

| 250mW<br>JEDEC Part Number | Nominal Zener Voltage at $I_{zr}$ | Zener Test Current | Maximum Zener Impedance     | Maximum Temperature Coefficient | Package Quantities<br>Bulk/Reel | Outline<br>Inches/millimeters  |
|----------------------------|-----------------------------------|--------------------|-----------------------------|---------------------------------|---------------------------------|--|
|                            | $V_z$ (Volts)                     | $I_{zr}$ (mA)      | $Z_{zr}$ at $I_{zr}$ (Ohms) | %/°C                            |                                 |  |
| 1N703A                     | 3.45                              | 5                  | 55                          | -0.070                          | 1000/<br>10,000                 |  <p>0.068/0.073 Dia<br/>1.73/1.93</p> <p>1.00 Min<br/>25.4</p> <p>150/170<br/>3.81/4.32</p> <p>1.00 Min<br/>25.4</p> <p>0.018/0.022 Dia<br/>0.457/0.559</p> <p>Polarity Band → (Cathode)</p> <p>All Dimensions in <math>\frac{\text{Inches}}{\text{mm}}</math></p> <p><b>DO-35</b></p> <p><b>FEATURES:</b></p> <ul style="list-style-type: none"> <li>Zener Voltage: 3.45 to 82.0 volts</li> <li>Hermetically sealed glass package</li> </ul> <p><b>MAXIMUM RATINGS:</b></p> <ul style="list-style-type: none"> <li>Junction Temperature: -65°C to +175°C</li> <li>Storage temperature: -65°C to +175°C</li> <li>DC Power Dissipation: 250 mW at <math>T_a = 75^\circ\text{C}</math></li> <li>Derate above 75°C: 1.5 mW/°C</li> <li>Forward Voltage at 200 mA: 1.5 volts max.</li> </ul> <p>Standard A Suffix Voltage Tolerance is <math>\pm 5\%</math>.<br/>Suffix C = <math>\pm 2\%</math>,<br/>Suffix D = <math>\pm 1\%</math></p> |
| 1N704A                     | 4.1                               | 5                  | 45                          | -0.060                          |                                 |  |
| 1N705A                     | 4.85                              | 5                  | 35                          | $\pm 0.030$                     |                                 |  |
| 1N706A                     | 5.8                               | 5                  | 20                          | +0.038                          |                                 |  |
| 1N707A                     | 7.1                               | 5                  | 10                          | +0.050                          |                                 |  |
| 1N708A                     | 5.6                               | 25                 | 2.6                         | +0.038                          |                                 |  |
| 1N709A                     | 6.2                               | 25                 | 4.1                         | +0.038                          |                                 |  |
| 1N710A                     | 6.8                               | 25                 | 4.7                         | +0.038                          |                                 |  |
| 1N711A                     | 7.5                               | 25                 | 5.3                         | +0.048                          |                                 |  |
| 1N712A                     | 8.2                               | 25                 | 6.0                         | +0.053                          |                                 |  |
| 1N713A                     | 9.1                               | 12                 | 7.0                         | +0.060                          |                                 |  |
| 1N714A                     | 10                                | 12                 | 8.0                         | +0.061                          |                                 |  |
| 1N715A                     | 11                                | 12                 | 9.0                         | +0.065                          |                                 |  |
| 1N716A                     | 12                                | 12                 | 10                          | +0.068                          |                                 |  |
| 1N717A                     | 13                                | 12                 | 11                          | +0.070                          |                                 |  |
| 1N718A                     | 15                                | 12                 | 13                          | +0.072                          |                                 |  |
| 1N719A                     | 16                                | 12                 | 15                          | +0.074                          |                                 |  |
| 1N720A                     | 18                                | 12                 | 17                          | +0.077                          |                                 |  |
| 1N721A                     | 20                                | 4                  | 20                          | +0.081                          |                                 |  |
| 1N722A                     | 22                                | 4                  | 24                          | +0.083                          |                                 |  |
| 1N723A                     | 24                                | 4                  | 28                          | +0.085                          |                                 |  |
| 1N724A                     | 27                                | 4                  | 35                          | +0.088                          |                                 |  |
| 1N725A                     | 30                                | 4                  | 42                          | +0.089                          |                                 |  |
| 1N726A                     | 33                                | 4                  | 50                          | +0.090                          |                                 |  |
| 1N727A                     | 36                                | 4                  | 60                          | +0.093                          |                                 |  |
| 1N728A                     | 39                                | 4                  | 70                          | +0.094                          |                                 |  |
| 1N729A                     | 43                                | 4                  | 84                          | +0.095                          |                                 |  |
| 1N730A                     | 47                                | 4                  | 98                          | +0.096                          |                                 |  |
| 1N731A                     | 51                                | 4                  | 115                         | +0.096                          |                                 |  |
| 1N732A                     | 56                                | 4                  | 140                         | +0.096                          |                                 |  |
| 1N733A                     | 62                                | 2                  | 170                         | +0.097                          |                                 |  |
| 1N734A                     | 68                                | 2                  | 200                         | +0.097                          |                                 |  |
| 1N735A                     | 75                                | 2                  | 240                         | +0.098                          |                                 |  |
| 1N736A                     | 82                                | 2                  | 280                         | +0.098                          |                                 |  |