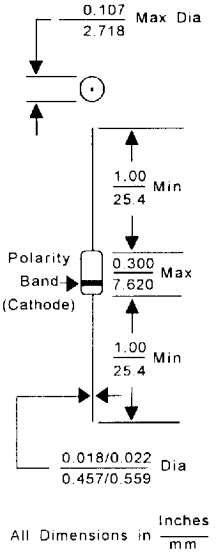
# ZENER DIODES, GLASS PACKAGE, LOW NOISE, LOW LEAKAGE

| 600mW JEDEC Part Number | Nominal Zener Voltage at $I_{zt}$ | Zener Test Current | Maximum Dynamic Impedance $Z_{zt}$ @ $I_{zt}$ | Maximum Reverse Leakage Current $T_A$=25°C | | Maximum Reverse Leakage Current $T_A$=150°C | | Maximum Noise Density $N_D$ @ $I_{zt}$ | Maximum Voltage Regulation From $I_{zL}$ to $I_{zt}$ | | Package Quantities |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | $V_z$ (V) | $I_{zt}$ (uA) | (Ohms) | $V_R$ (V) | $I_R$ (uA) | $V_R$ (V) | $I_R$ (uA) | (uV/√Hz) | $\Delta V_z$ (V) | $I_{zL}$ (mA) | Bulk/Reel |
| LNA328 | 2.8 | 20 | 50 | 1.0 | 5.0 | 1.0 | 80.0 | 1.0 | 0.75 | 2.0 | |
| LNA331 | 3.1 | 20 | 30 | 1.0 | 2.5 | 1.0 | 60.0 | 1.0 | 0.75 | 2.0 | |
| LNA335 | 3.5 | 20 | 20 | 1.0 | 2.0 | 1.0 | 40.0 | 1.0 | 0.75 | 2.0 | |
| LNA339 | 3.9 | 20 | 15 | 1.0 | 2.0 | 1.0 | 30.0 | 1.0 | 0.75 | 2.0 | |
| LNA343 | 4.3 | 20 | 12 | 1.5 | 2.0 | 1.5 | 25.0 | 1.0 | 0.75 | 2.0 | |
| LNA347 | 4.7 | 10 | 10 | 2.0 | 2.0 | 2.0 | 10.0 | 1.0 | 0.50 | 1.0 | |
| LNA351 | 5.1 | 5.0 | 10 | 3.0 | 2.0 | 2.0 | 5.0 | 1.0 | 0.30 | 0.25 | 100/ |
| LNA356 | 5.6 | 1.0 | 40 | 4.0 | 2.0 | 3.0 | 1.0 | 1.0 | 0.10 | 0.05 | 1000 |
| LNA362 | 6.2 | 1.0 | 40 | 5.6 | 0.5 | 4.0 | 1.0 | 1.0 | 0.10 | 0.01 | |
| LNA368 | 6.8 | 1.0 | 50 | 6.2 | 0.05 | 5.0 | 1.0 | 1.0 | 0.10 | 0.01 | |
| LNA375 | 7.5 | 1.0 | 50 | 6.8 | 0.01 | 6.0 | 1.0 | 1.0 | 0.10 | 0.01 | |
| LNA382 | 8.2 | 1.0 | 75 | 7.5 | 0.01 | 6.5 | 1.0 | 1.0 | 0.10 | 0.01 | |
| LNA391 | 9.1 | 1.0 | 75 | 8.2 | 0.01 | 8.0 | 1.0 | 1.0 | 0.10 | 0.01 | |
| LNA3100 | 10.0 | 1.0 | 75 | 9.1 | 0.01 | 9.0 | 1.0 | 1.0 | 0.10 | 0.01 | |

Outline: Inches/millimeters




**DO-7**

| 600mW JEDEC Part Number | Nominal Zener Voltage at $I_{zt}$ | Zener Test Current | Maximum Dynamic Impedance $Z_{zt}$ @ $I_{zt}$ | Maximum Reverse Current at $T_A$=25°C | | Maximum Noise Density $N_D$ @ $I_{zt}$ | Maximum Voltage Regulation From $I_{zL}$ to $I_{zt}$ | | Temperature Coefficient of Zener Voltage ($V_z$) | Package Quantities |
|---|---|---|---|---|---|---|---|---|---|---|
| | $V_z$ (V) | $I_{zt}$ (uA) | (Ohms) | $V_R$ (V) | $I_R$ (uA) | (uV/√Hz) | $\Delta V_z$ (V) | $I_{zL}$ (mA) | (%/°C) | Bulk/Reel |
| GLA28 | 2.8 | 20 | 50 | 1.0 | 5.0 | 1.0 | 1.00 | 2.0 | -0.065 | |
| GLA31 | 3.1 | 20 | 30 | 1.0 | 2.5 | 1.0 | 1.00 | 2.0 | -0.063 | |
| GLA35 | 3.5 | 20 | 20 | 1.0 | 2.0 | 1.0 | 1.00 | 2.0 | -0.058 | |
| GLA39 | 3.9 | 20 | 15 | 1.0 | 2.0 | 1.0 | 1.00 | 2.0 | -0.050 | |
| GLA43 | 4.3 | 20 | 12 | 1.5 | 2.0 | 1.0 | 1.00 | 2.0 | -0.025 | |
| GLA47 | 4.7 | 10 | 10 | 2.0 | 2.0 | 1.0 | 0.75 | 1.0 | ±0.010 | |
| GLA51 | 5.1 | 5.0 | 10 | 3.0 | 2.0 | 1.0 | 0.45 | 0.25 | +0.025 | 100/ |
| GLA56 | 5.6 | 1.0 | 40 | 4.0 | 2.0 | 1.0 | 0.15 | 0.05 | +0.033 | 1000 |
| GLA62 | 6.2 | 1.0 | 40 | 5.6 | 0.5 | 1.0 | 0.15 | 0.01 | +0.045 | |
| GLA68 | 6.8 | 1.0 | 50 | 6.2 | 0.05 | 1.0 | 0.15 | 0.01 | +0.050 | |
| GLA75 | 7.5 | 1.0 | 50 | 6.8 | 0.01 | 1.0 | 0.15 | 0.01 | +0.055 | |
| GLA82 | 8.2 | 1.0 | 75 | 7.5 | 0.01 | 1.0 | 0.15 | 0.01 | +0.062 | |
| GLA91 | 9.1 | 1.0 | 75 | 8.2 | 0.01 | 1.0 | 0.15 | 0.01 | +0.066 | |
| GLA100 | 10.0 | 1.0 | 75 | 9.1 | 0.01 | 1.0 | 0.15 | 0.01 | +0.070 | |

**FEATURES:**

- Low Noise Avalanche Diodes
- Zener Voltage: 2.8 to 10.0 volts
- Hermetically sealed DO-7.
- Controlled Voltage Regulation
- Low Dynamic Impedance
- Low Leakage Current

**MAXIMUM RATINGS:**

- Junction Temperature: -65°C to +175°C
- Storage temperature: -65°C to +200°C
- DC Power Dissipation: 600 mW at $T_A$=25°C
- Derate above 25°C: 4.0 mW/°C
- Forward Voltage @ 200 mA: 1.0 volts max.

Standard (No Suffix) Voltage Tolerance is ±10%.
Suffix A = ±5%,
Suffix B = ±2%