



High Power Zener Series Reliability & Qualification Data

This is the reliability and qualification data for the metal package high power zener diode series.

Features

JAN/JANTX/JANTXV available
Voltage 3.9 – 200
10 – 50 Watt power ratings
Highly reliable and rugged

Mechanical

Hermetically sealed metal package
Tin-Lead Plating
DO-4, DO-5, TO-3
Available with anode or cathode to case

Maximum Ratings

Operating Temperatures: -65° C to 175° C
Storage Temperature: -65° C to 175° C

Stress	Results
Moisture Classification	Level 1 Package - No Drypack Required Hermetically sealed
ESD Sensitivity	Non-sensitive – No special handling required
Estimated FIT 0.3	90% confidence, 70° C operating, 0.7 eV
Temperature Cycle	0/23008 @ 20 temp. cycles (-55° C to 175° C)
Steady State Life	0/80606 @ 150° C (1000 Hours)
High Temperature Storage	0/945 @ 175° C (1000 Hours)

HIGHPOWERZENER1101

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The following series are covered: 1N2814-1N2846, 1N2970-1N3015, 1N3993-1N4000, 1N3305-1N3350, 1N4549-1N4564.