



Medium Power Zener and Transient Voltage Protection Axial Lead Series Reliability & Qualification Data

This is the reliability and qualification data for the Medium Power Transient Voltage Suppression Series.

Features

Molded axial lead
 400-1.5K Watts Peak Pulse Power Dissipation
 Stand Off Voltages from 5.5V – 400V

Mechanical

Weight: 1.5 grams maximum
 Polarity: Marked with Band
 Unipolar or Bipolar

Maximum Ratings

400-1.5K Watts of Peak Pulse Power Dissipation
 Operating Temperatures: -65° C to 175° C
 Storage Temperature: -65° C to 175° C
 Forward Surge Rating: 200Amps (1/20 second)
 Steady State Power Dissipation 5.0 W @ $T_L = 75^\circ\text{C}$

Stress	Results
Moisture Classification	Level 1 Package - No Drypack Required
ESD Sensitivity	Non-sensitive – No special handling required
Steady State Life	0/50 @ 25° C (1000 Hours)
Temperature Cycle	0/350 @ 1000 temp cycles (65° C to 200° C)
High Temperature Reverse Bias	0/350 @ 125° C (1000 Hours)
Humidity	0/200 @ 85° C 85% Humidity (1000 hours)

1.5KE1302

Series: P4KE, P5KE, P6KE, 1EZ, 2EZ, 3EZ Series
 1N6267-1N6303A, 1N5913-1N5956
 1.5KE6.8-1.5KE400A
 SAC5.0-SAC50, SA5-SA170 and C
 GMP-5, 1N5333-1N5388, 1N4728-1N4764

John Freeman
 Director of Engineering

Bill Jones
 Director of Quality Control and Reliability Assurance