



## 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<sub>L</sub>= 75°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