MAXPak ™ Series
MAX-50M
HIGH CURRENT TRANSIENT VOLTAGE SUPPRESSOR

FEATURES

- **8000A Surge Capability** @ 8 x 20 µsec waveform (per IEC- 61000-4-5)
- Glass passivated chip junction
- Bi-directional
- Excellent clamping capability
- Repetition rate (duty cycle): 0.05%
- Sharp breakdown voltage
- Low incremental surge resistance
- Fast response time: typically less than 1.0 µs from 0 Volts to BV
- Operation temperature: -40°C to +125°C
- Epoxy encapsulated package has Underwriters Laboratory Flammability Classification 94 V-0

MECHANICAL DATA

Terminal: Ag Plated Axial leads, solderable per MIL-STD-750. Method 2026

Mounting Position: Any

Dimensions in Inches and Millimeters

Weight: 0.088 ± 0.01 ounces (2.497 ± 0.283 g)

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

<table>
<thead>
<tr>
<th>RATING</th>
<th>SYMBOL</th>
<th>VALUE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakdown Voltage @ IT=1.0mA</td>
<td>VBr</td>
<td>50 ± 5%</td>
<td>Volt</td>
</tr>
<tr>
<td>Clamping Voltage @ 1100A / 10x1000 µsec waveform</td>
<td>Vc</td>
<td>69 max</td>
<td>Volt</td>
</tr>
<tr>
<td>Reverse Leakage @ 45.9V</td>
<td>IR</td>
<td>20 µ max</td>
<td>A</td>
</tr>
</tbody>
</table>
MAXPak™ 50M Series
Rating and Characteristic Curves

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**Fig. 1 PEAK PULSE POWER RATING**

**Fig. 2 - Pulse Derating Curve**

**Fig. 3 - Pulse Waveform**