

# MDE Semiconductor, Inc.

78-150 Calle Tampico, Unit 210, La Quinta, CA., USA 92253 Tel : 760-564-8656 • Fax : 760-564-2414

1-800-831-4881 Email: sales@mdesemiconductor.com Web: www.mdesemiconductor.com

## MAXPak™ Series

# MAX-50M

## HIGH CURRENT TRANSIENT VOLTAGE SUPPRESSOR

### FEATURES

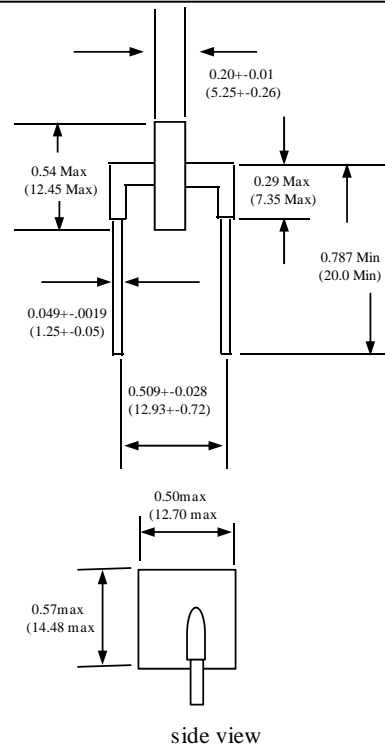
- **8000A Surge Capability** @ 8 x 20 µsec waveform (per IEC- 61000-4-5)
- Glass passivated chip junction
- Bi-directional
- Excellent clamping capability
- Repetition rate (duty cycle): 0.05%
- Sharp breakdown voltage
- Low incremental surge resistance
- Fast response time: typically less than 1.0 µs 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

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



Dimensions in Inches and Millimeters

### MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Breakdown Voltage @ IT=1.0mA	VBr	50 ± 5%	Volt
Clamping Voltage @ 1100A / 10x1000 µsec waveform	Vc	69 max	Volt
Reverse Leakage @ 45.9V	IR	20 µ max	A

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## MAXPak™ 50M Series Rating and Characteristic Curves

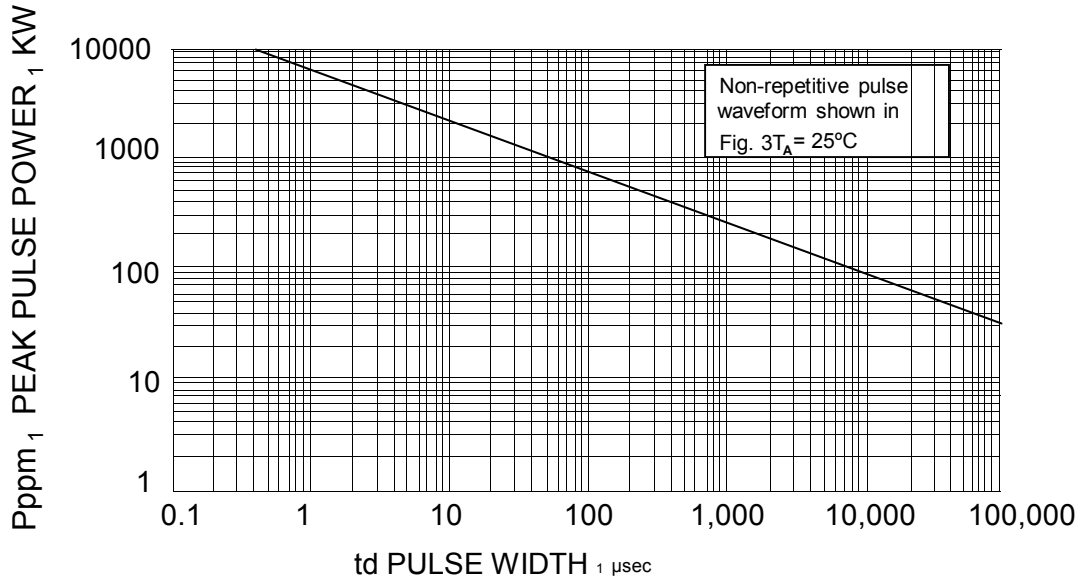


FIG. 1 PEAK PULSE POWER RATING

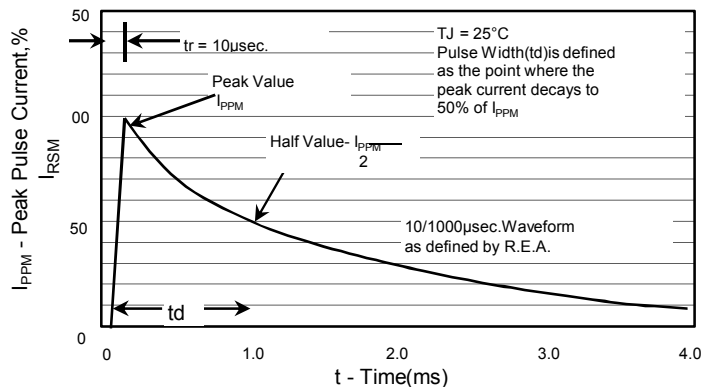
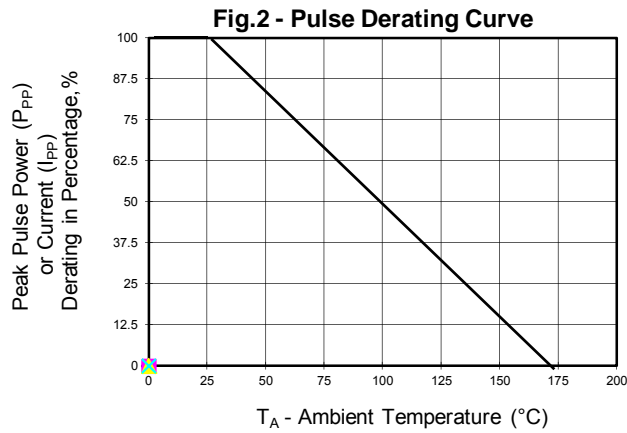


Fig.3 - Pulse Waveform