

# 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

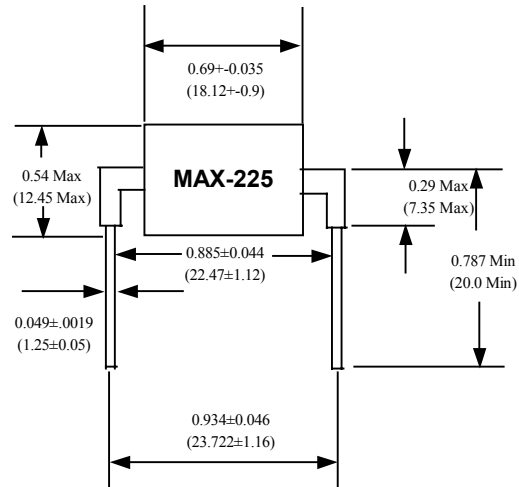
## MAXPak™ Series

# MAX-225

## HIGH CURRENT TRANSIENT VOLTAGE SUPPRESSOR

### FEATURES

- **10KA Surge Capability @ 8 x 20 µsec waveform** (per IEC- 61000-4-5)
- UL 1449 Pending
- Peak Power Dissipation 324KW
- 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



Dimensions in inches  
and  
(Millimeters)

### MECHANICAL DATA

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

**Mounting Position:** Any

**Weight:**  $0.408 \pm 0.040$  ounces ( $11.300 \pm 1.130$ g)

### MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified.

| RATING   | SYMBOL          | VALUE    | UNITS |
|--|-----------------|----------|-------|
| Reversed Standoff Voltage                        | V <sub>rw</sub> | 202.5    | Volt  |
| Breakdown Voltage @ I <sub>T</sub> =1.0mA        | V <sub>br</sub> | 225 ± 5% | Volt  |
| Clamping Voltage @ 1090A / 10x1000 µsec waveform | V <sub>c</sub>  | 297 max  | Volt  |
| Reverse Leakage @ 202.5V                         | I <sub>R</sub>  | 20 µ max | A     |

# MAXPak™ Series Curves

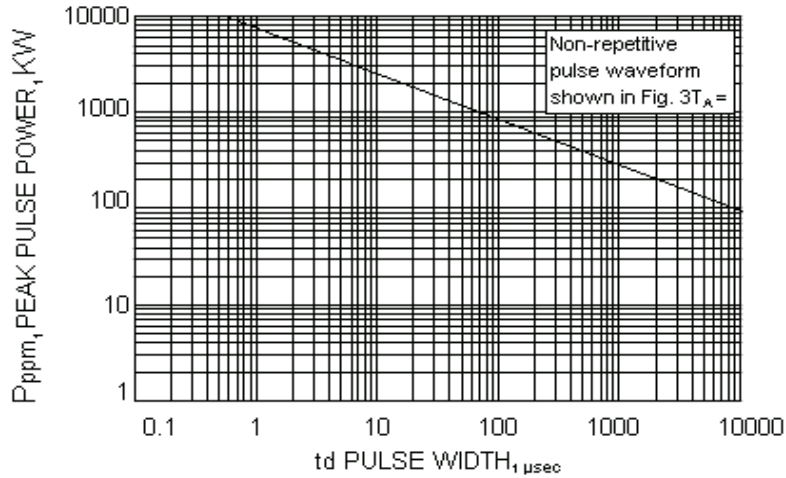


FIG. 1 PEAK PULSE POWER RATING

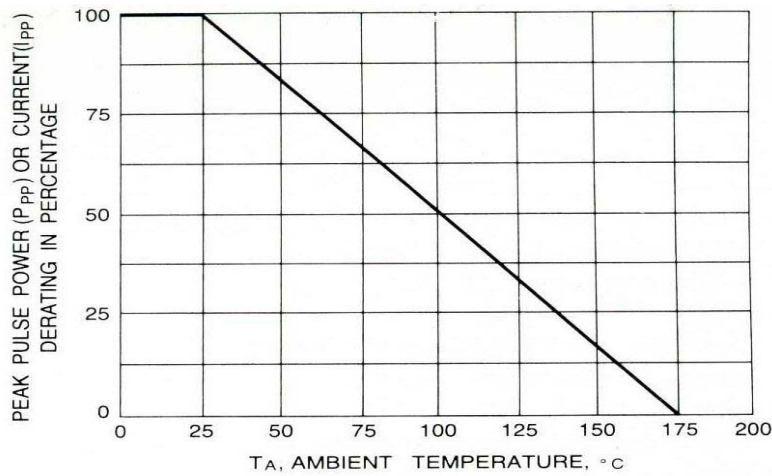


FIGURE 2-PULSE DERATING CURVE

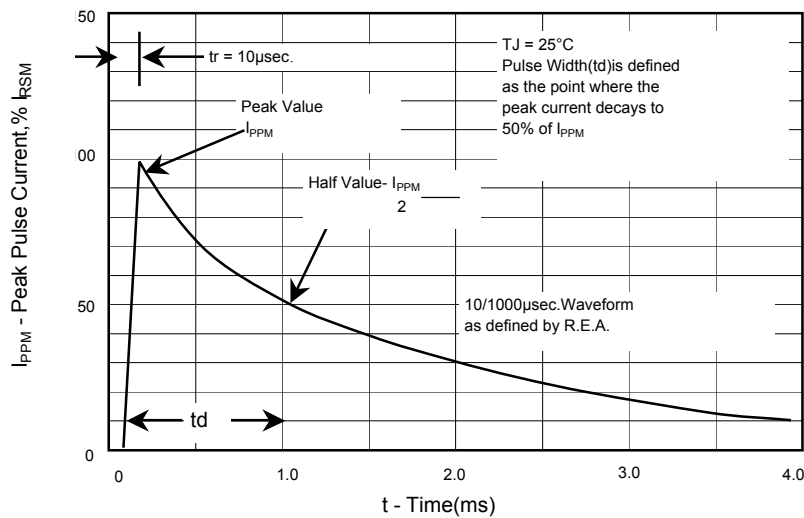


Fig.3 - Pulse Waveform