

# 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-470

## HIGH CURRENT TRANSIENT VOLTAGE SUPPRESSOR

### FEATURES

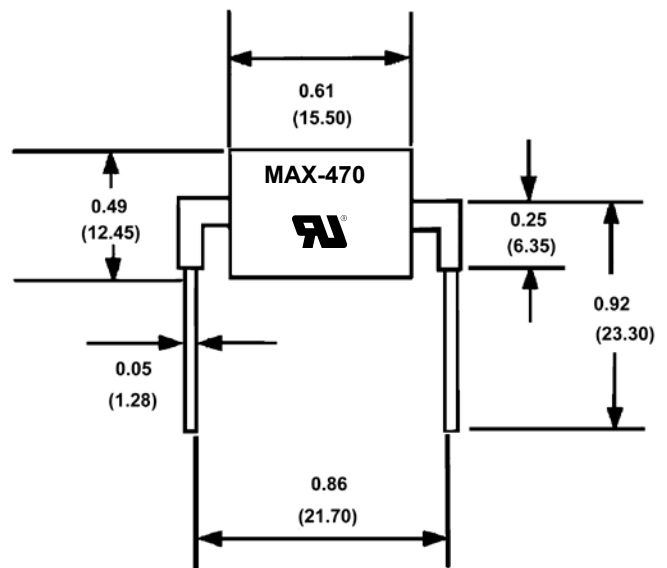
- **UL1449** Recognition
- **8KA Surge Capability @** 8 x 20 µsec waveform (per IEC- 61000-4-5)
- Peak Power Dissipation 288KW
- Bi-directional
- Excellent clamping capability
- Repetition rate (duty cycle): 0.05%
- Sharp breakdown voltage
- Low incremental surge resistance
- Fast response time: typically 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:** 0.328 ± 0.033 ounces (9.300 ± 0.930 g)



Dimensions in inches  
and  
(Millimeters)

### MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified.

| RATING  | SYMBOL          | VALUE    | UNITS |
|---|-----------------|----------|-------|
| Reversed Standoff Voltage                       | V <sub>rw</sub> | 423      | Volt  |
| Breakdown Voltage @ I <sub>T</sub> =1.0mA       | V <sub>br</sub> | 470 ± 5% | Volt  |
| Clamping Voltage @ 460A / 10x1000 µsec waveform | V <sub>c</sub>  | 625 max  | Volt  |
| Reverse Leakage @ 423V                          | I <sub>R</sub>  | 20 µ max | A     |

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## MAXPak™ 470 Series Rating and Characteristic Curves

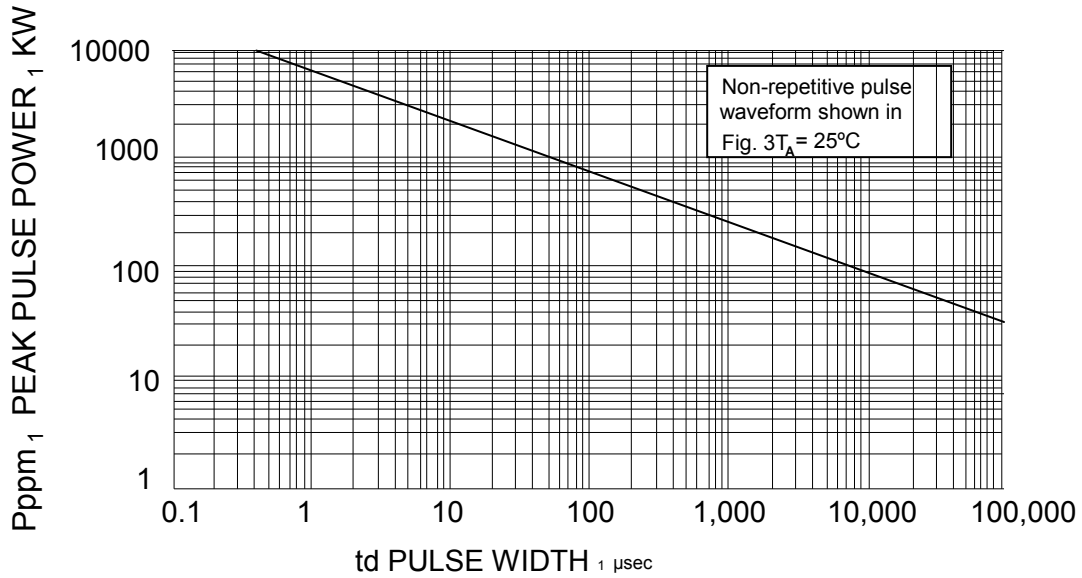


FIG. 1 PEAK PULSE POWER RATING

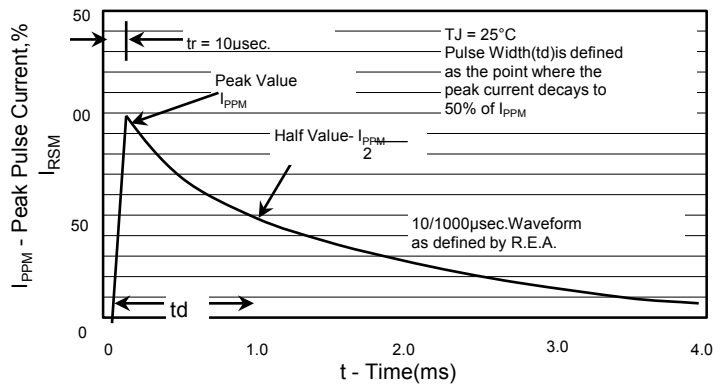
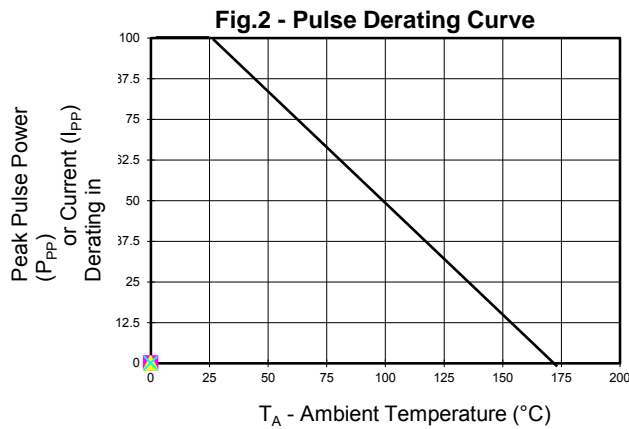


Fig.3 - Pulse Waveform