

# **MDE Semiconductor, Inc.**

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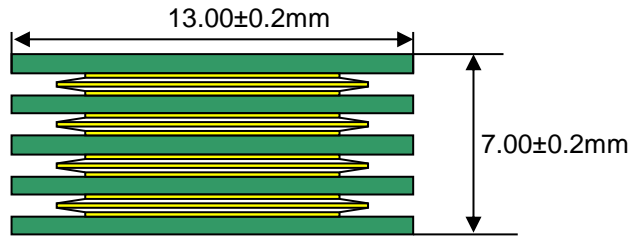
## **MAX15KA Cell Series**

### **Surface Mount Power Transient Voltage Suppressor**

**Stand-off Voltage 33-76 Volts**

#### **FEATURES**

- Glass passivated junction
- Bi-directional
- RoHS Compliant
- 15000A surge capability at 8 x 20µsec waveform  
(per IEC-61000-4-5)
- Excellent clamping capability
- Coated Powder has UL
- Flammability Classification 94V-0
- Operating and storage Temp -40°C to +125°C



Dimensions in Millimeters

#### **MECHANICAL DATA**

**Terminals: Solderable per MIL-STD-750, Method 2026**

**Mounting Position: Any**

**Weight: 8.7 ± 1g**

#### **DEVICES FOR BIPOLAR APPLICATIONS**

**Bidirectional use C or CA Suffix. Electrical characteristics apply in both directions.**

#### **MAXIMUM RATINGS AND CHARACTERISTICS**

part number	Stand Off Voltage (V <sub>so</sub> )	Max. Reverse Leakage (I <sub>R</sub> ) @ V <sub>so</sub>	Reverse Breakdown Voltage (V <sub>BR</sub> ) @ I <sub>T</sub> (Volts)		Test Current I <sub>T</sub>	Max. Clamping Voltage V <sub>CL</sub> @ Peak Pulse Current (I <sub>PP</sub> ) (Note 1)	
			Min.	Max.		V <sub>CL</sub> Volts	I <sub>pp</sub> Amps
MAX15KA-33CA	33	80	36.7	40.6	10	62	15,000
MAX15KA-54CA	54	20	60.0	66.3	10	101	15,000
MAX15KA-58CA	58	20	64.0	70.0	10	110	15,000
MAX15KA-66CA	66	20	72.0	80.0	10	120	15,000
MAX15KA-76CA	76	20	87.1	95.0	10	150	15,000

NOTE 1 : Using 8x20µS Wave shape defined in IEC 61000-4-5

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#### Ratings and Characteristic Curves ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 - Test Pulse Waveform

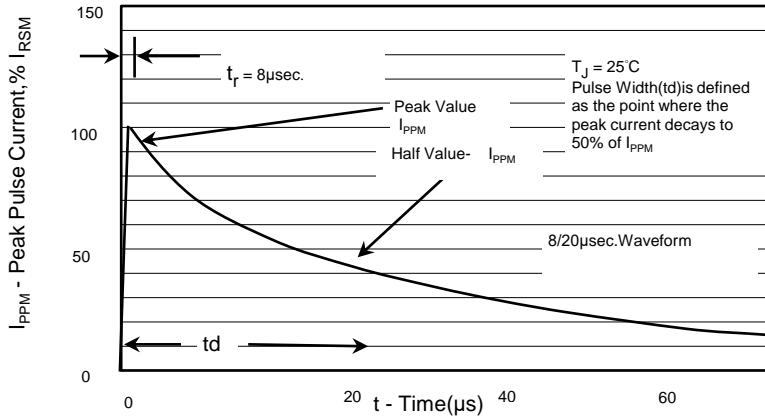


Fig.2 - Pulse Derating Curve

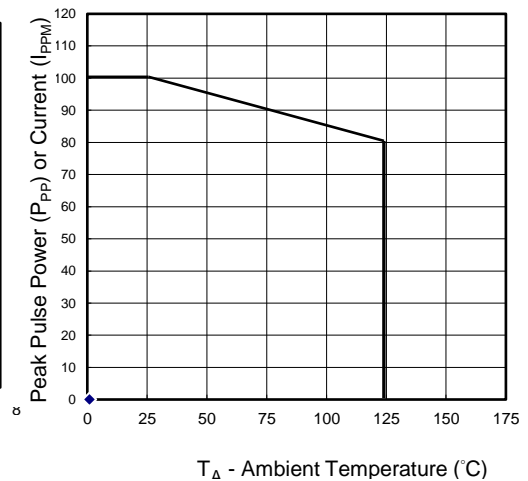


Fig.3 - Peak Pulse Power Rating Curve

