

Transient Voltage Suppressors

FEATURES

- Available in uni-directional polarity only
- Peak pulse power:
 - 6600 W (10/1000 μ s)
- Stand off voltage range: 48V
- Bi directional types
- Low leakage current:
 - 10 μ A at 25 °C
 - 150 μ A at 175°C
- Operating Storage Temperature: -55~175°C
- JEDEC registered package outline
- Resin meets UL 94, V0
- AEC-Q101



DO-218AB



Complies with the following standards

- ISO 10605, C = 150 pF, R = 330 Ω :
 - 30 kV (air discharge)
 - 30 kV (contact discharge)
- ISO 10605, C = 330 pF, R = 330 Ω :
 - 30 kV (air discharge)
 - 30 kV (contact discharge)

Order information

Device	Marking	Package	Shipping
SM8S66J48B	SM8S48C	DO-218AB	750

ELECTRICAL CHARACTERISTICS (JEDEC REGISTERED DATA) (T _A = 25 °C unless otherwise noted)							
DEVICE TYPE	BREAKDOWN VOLTAGE V _{BR} AT I _T ⁽¹⁾ (V)		TEST CURRENT I _T (mA)	STAND-OFF VOLTAGE V _{WM} (V)	MAXIMUM REVERSE LEAKAGE AT V _{WM} I _D (μA)	MAXIMUM PEAK PULSE CURRENT I _{PPM} ⁽²⁾ (A)	MAXIMUM CLAMPING VOLTAGE AT I _{PPM} V _C (V)
	MIN.	MAX.					
SM8S66J48B	53.3	58.9	5.0	48.0	10.0	85.2	77.4

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RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)

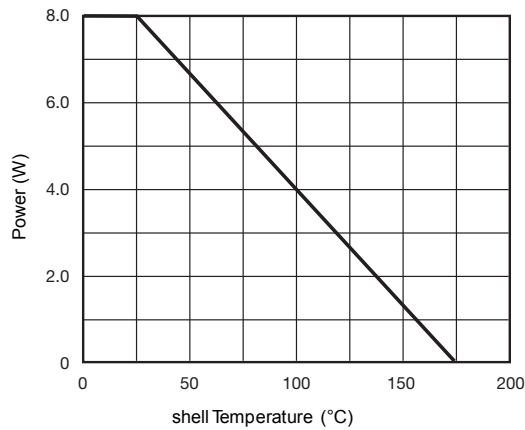


Fig. 1 - Power derating curve

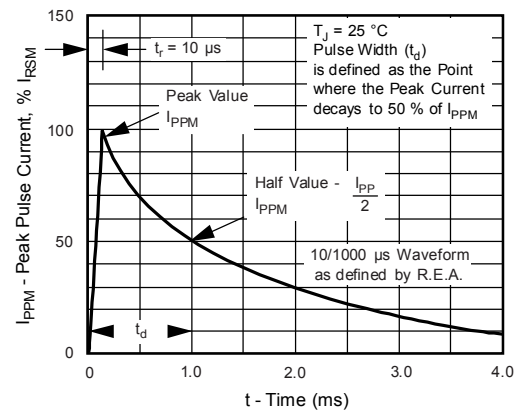


Fig. 2 - Pulse Waveform

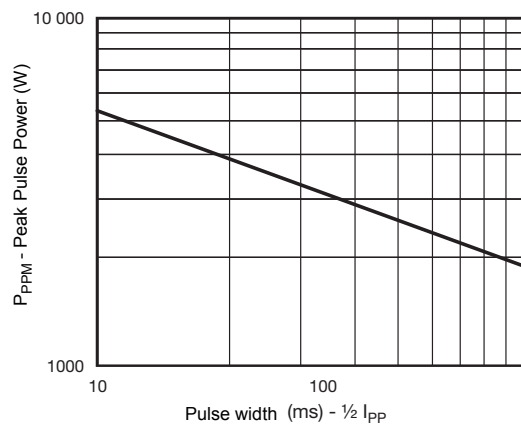


Fig. 3 - Peak Pulse Power Rating Curve

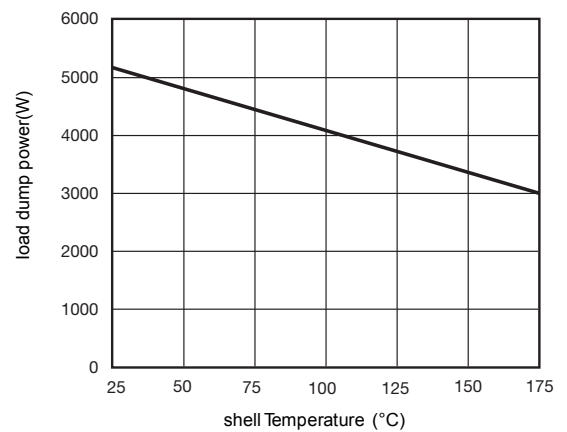
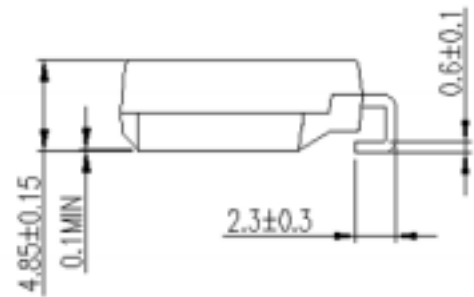
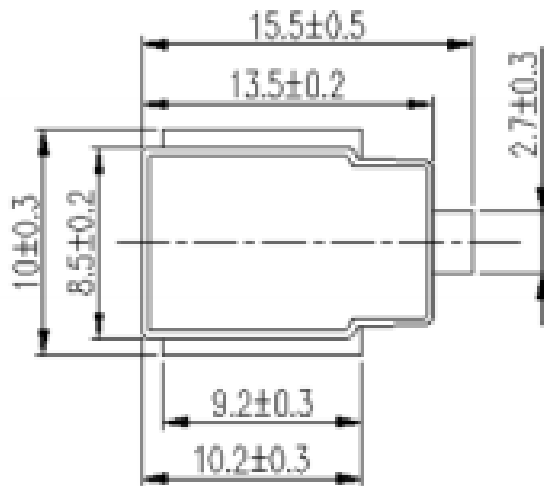


Fig. 4 - load dump power characteristics

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PACKAGE OUTLINE DIMENSIONS in inches (millimeters)



Recommended Mounting Pad Layout Unit:mm

