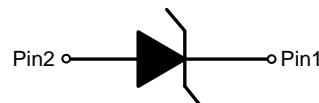
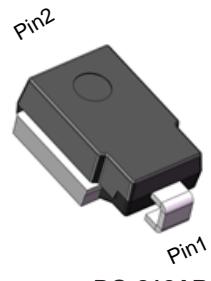


Transient Voltage Suppressors**FEATURES**

- Available in uni-directional polarity only
- Peak pulse power:
– 6600 W (10/1000 µs)
- Stand off voltage range: 36V
- Unidirectional types
- Low leakage current:
 - 10 µA at 25 °C
 - 150 µA at 125°C
- Operating T_j max: 150 °C
- JEDEC registered package outline
- Resin meets UL 94, V0
- AEC-Q101 qualified



Circuit diagram

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)
- ISO 7637-2^(a)
 - Pulse 1: V_S = -100 V
 - Pulse 2a: V_S = +50 V
 - Pulse 3a: V_S = -150 V
 - Pulse 3b: V_S = +100 V
 - Pulse 5a: V_S = +87 V

Order information

Device	Marking	Package	Shipping
SM8S66J36V	SM6S 36V	DO-218AB	500

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)
	MIN.	MAX.				
SM8S66J36V	40.5	44.5	5.0	36.0	10	114
						58.2

Notes(1) Pulse test: $t_p \leq 50$ ms

(2) Surge current waveform per fig. 3 and derate per fig. 2

(3) All terms and symbols are consistent with ANSI/IEEE CA62.35

Transient Voltage Suppressors

IEC Compatibility

Part Number	ISO7637 2 Test 5A Test Waveform						
	12V system	24V system	Resistance				
100V@400ms	174V@350ms	0. 5Ω	1Ω	2Ω	4Ω	8Ω	
SM8S66J36V	-	✓	-	-	-	-	✓

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

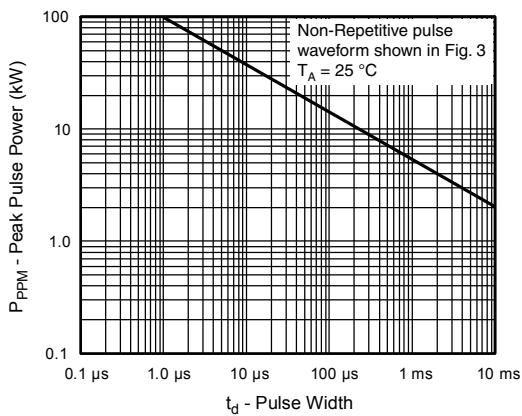


Fig. 1 - Peak Pulse Power Rating Curve

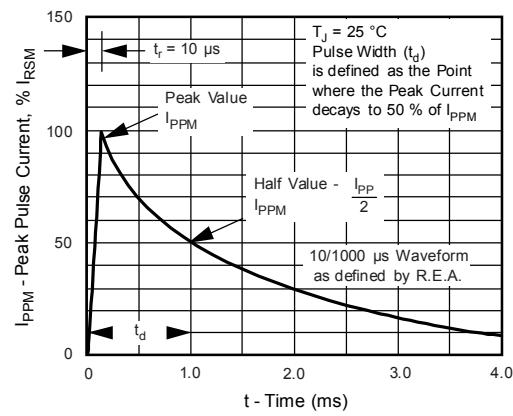


Fig. 3 - Pulse Waveform

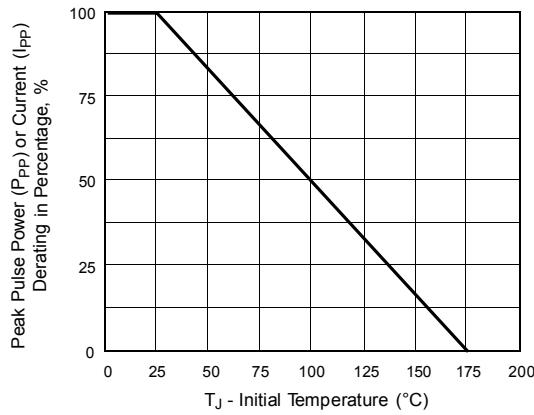


Fig. 2 - Pulse Power or Current vs. Initial Junction Temperature

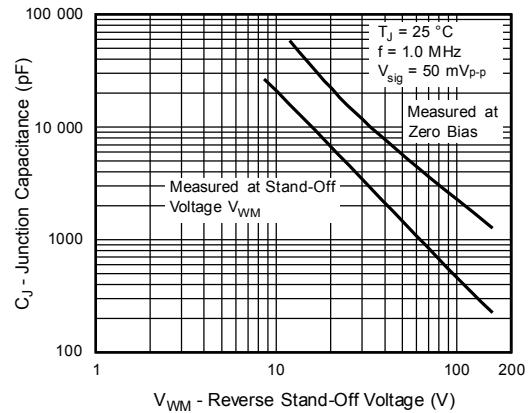
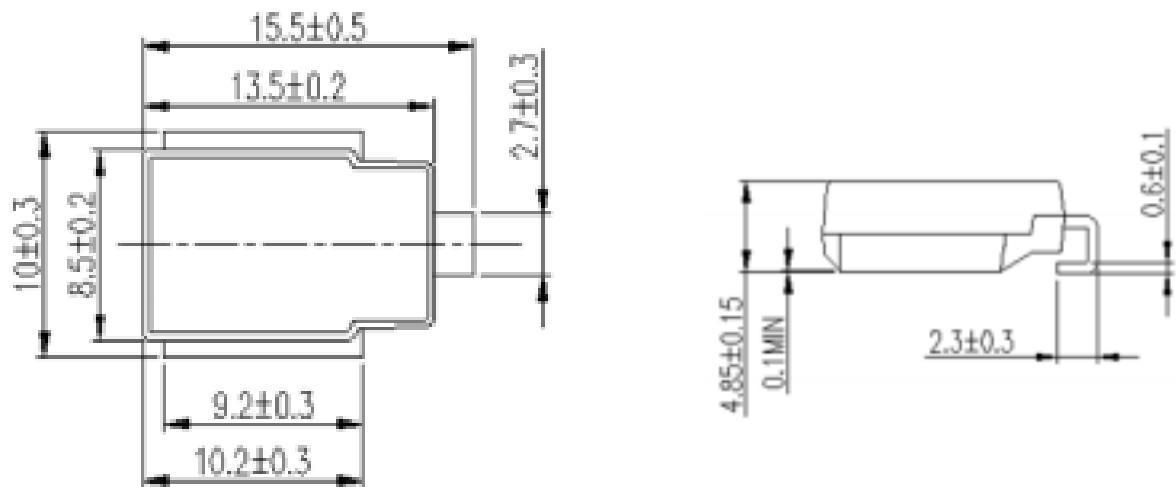


Fig. 4 - Typical Junction Capacitance

Transient Voltage Suppressors**PACKAGE OUTLINE DIMENSIONS** in inches (millimeters)**Recommended Mounting Pad Layout** Unit:mm