Surface mount transient voltage suppressor power 550 watts Breakdown Voltage: 220 V~250 V

FEATURES

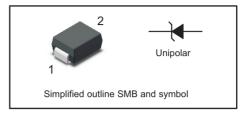
- For surface mounted applications in order to optimize board space.
- · Low profile package
- · Glass passivated junction
- · Excellent clamping capability
- · Low incremental surge resistance

MECHANICAL DATA

- · Case: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.1g / 0.0034oz

PINNING

PIN	DESCRIPTION					
1	Cathode					
2	Anode					



Maximum Ratings and Electrical characteristics Ratings at 25 °C ambient temperature unless otherwise specified.

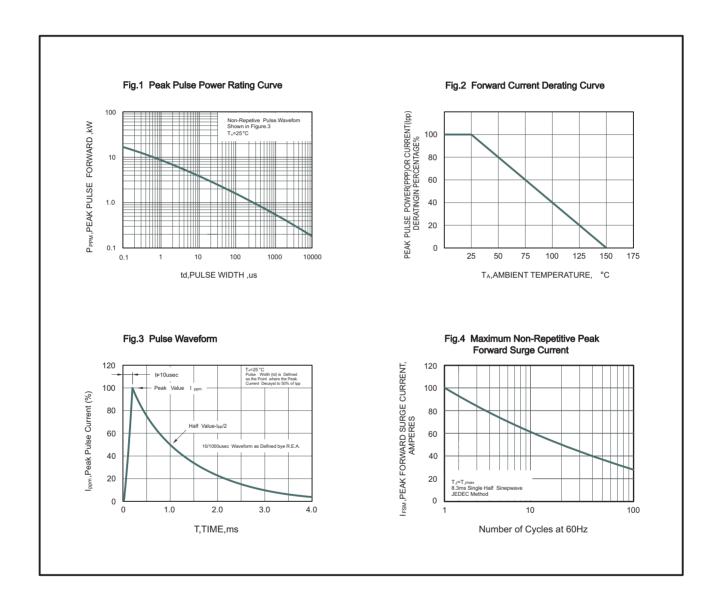
Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000 s waveform (Note1,Note2, Fig.1).	P _{PPM}	550	W
Peak Forward Surge Current,8.3ms Single Half Sine-Wave Superimposed on Rated Load, (JEDEC Method) (Note 3,Fig4).	I _{FSM}	100	А
Peak Pulse Current on 10/1000 us waveform (Note 1, Fig 3)	I _{PPM}	see Table 1	А
ESD Voltage per IEC61000-4-2 Contact Air	V _{ESD1} V _{ESD2}	±30 ±30	kV
Typical Thermal Resistance Junction to Ambient(Note 2)	R _{eJA}	43	°C/W
Operating Junction Temperature and Storage Temperature Range	T _j , T _{stg} -55 ~ +150		°C

NOTES:

- 1. Non-repetitive current pulse, per Fig.3 and derated above T_A = 25 °C per Fig. 2.
- 2. P.C.B. mounted with 1.5" X 1.5" (3.8 X 3.8 cm) copper pad areas.
- 3. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle=4 pulses per minute maximum.

Characteristics at Ta = 25°C Table 1

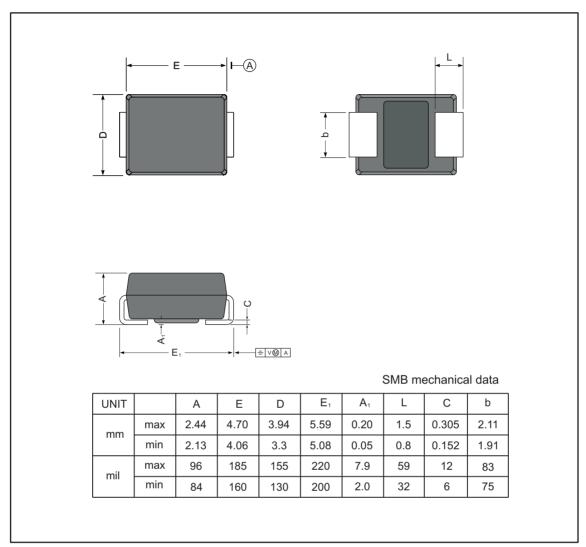
Туре	Marking	V _{RMW}	Breakdown Voltage		Test Current	Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current
			V _{BR} @ I _T		1	I _R @ V _{RWM}	V _c @ I _{PP}	I
			Min	Max	'т	IR CO V RWM	VC (W Ipp	Грр
UNI	UNI	V	V	V	mA	μΑ	V	Α
P5.5SMB220A	220A	185	209	231	1	1	328	1.7
P5.5SMB250A	250A	214	237	263	1	1	344	1.62



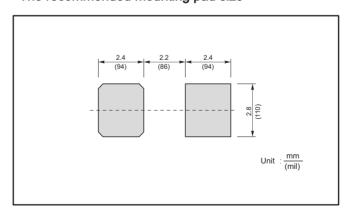
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMB



The recommended mounting pad size



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