



Surface mount transient voltage suppressor power 350 watts

Stand-Off Voltage: 160 V~220 V

FEATURES

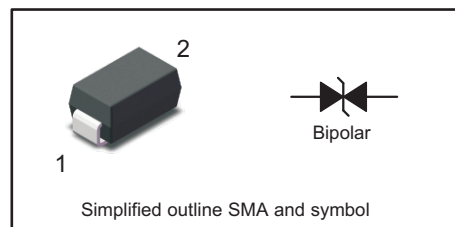
- For surface mounted applications in order to optimize board space.
- Low profile package
- Glass passivated junction
- Excellent clamping capability
- Low incremental surge resistance

MECHANICAL DATA

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.055g / 0.002oz

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 us waveform (Note1,Note2, Fig.1).	P_{PPM}	350	W
Peak Pulse Current on 10/1000 us waveform (Note 1, Fig 3)	I_{PPM}	see Table 1	A
ESD Voltage per IEC61000-4-2	Contact V_{ESD1} Air V_{ESD2}	± 30 ± 30	kV
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 $T_A = 25^\circ\text{C}$ per Fig. 2.
2. Mounted on 5 mm^2 (0.13mm thick) land areas.



Characteristics at Ta = 25°C

Table 1

Type	Marking	V _{RWM}	Breakdown Voltage		Test Current	Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current
			V _{BR} @ I _T					
			Min	Max	I _T	I _R @ V _{RWM}	V _C @ I _{PP}	I _{PP}
BI	BI	V	V	V	mA	μA	V	A
SMA3.5J160CA	VP	160	178	197	1	1	259	1.35
SMA3.5J170CA	VR	170	189	209	1	1	275	1.35
SMA3.5J180CA	VT	180	201	222	1	1	292	1.26
SMA3.5J200CA	VV	200	224	247	1	1	324	1.08
SMA3.5J220CA	VX	220	246	272	1	1	356	1

Fig.1 Peak Pulse Power Rating Curve

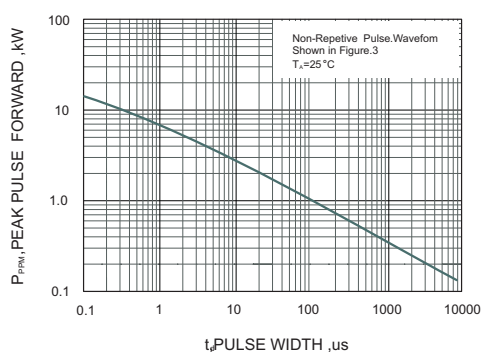


Fig.2 Forward Current Derating Curve

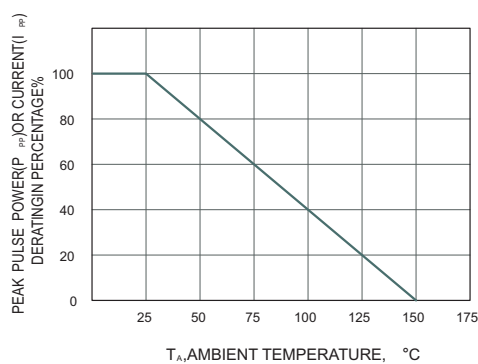
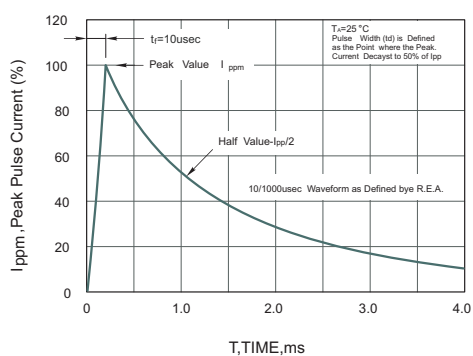


Fig.3 Pulse Waveform

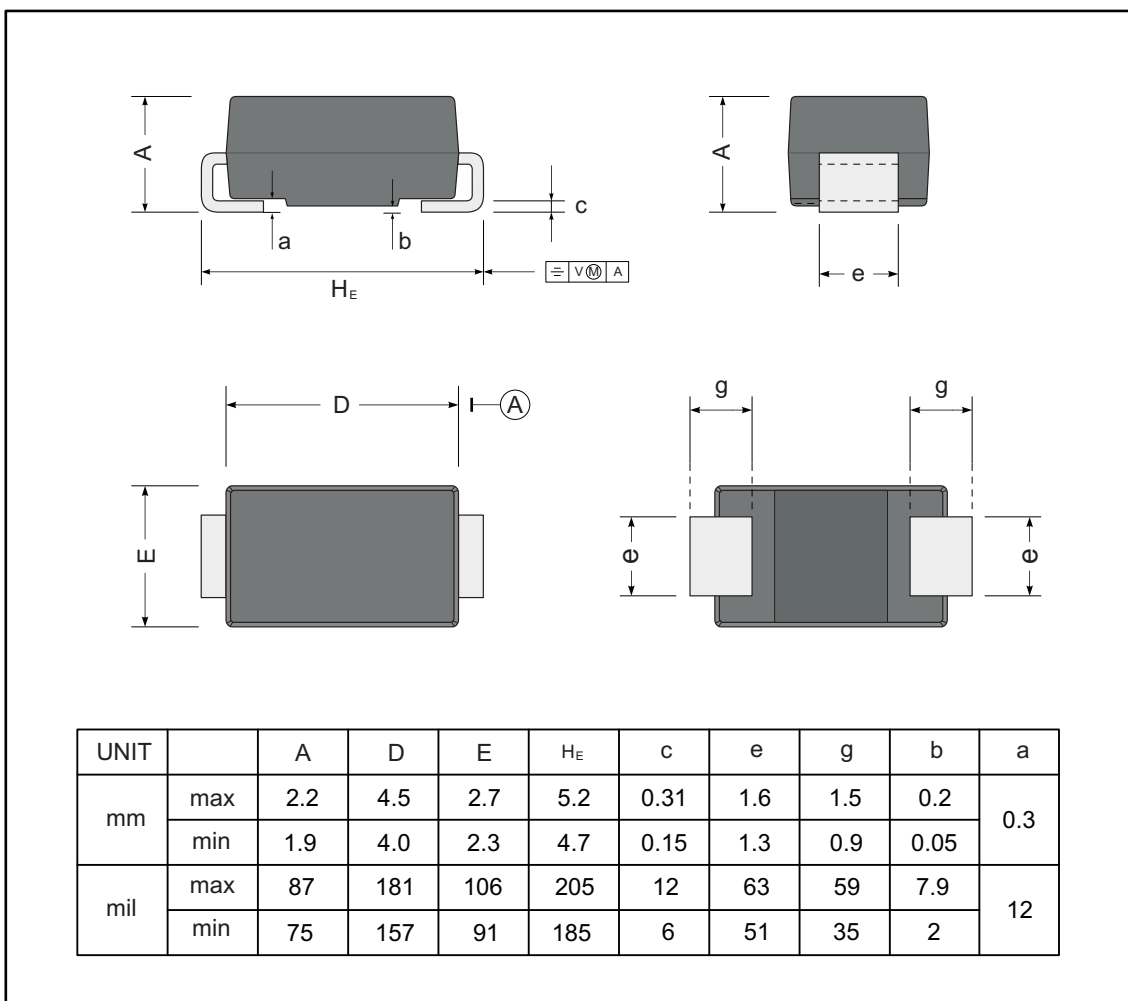




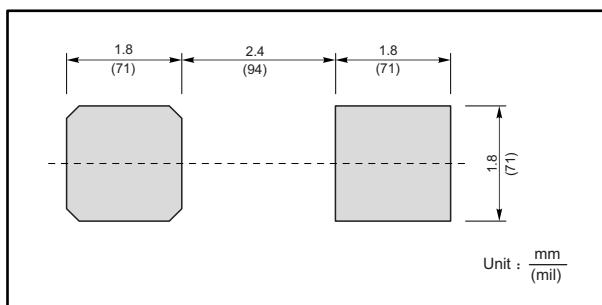
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size





Important Notice and Disclaimer

Jingdao Microelectronics reserves the right to make changes to this document and its products and specifications at any time without notice.

Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

Jingdao Microelectronics makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Jingdao Microelectronics assume any liability for application assistance or customer product design.

Jingdao Microelectronics does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of Jingdao Microelectronics.

Jingdao Microelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of Jingdao Microelectronics.