Surface mount transient voltage suppressor power 340 watts

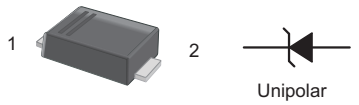
Stand-Off Voltage: 200 V~220 V

FEATURES

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Simplified outline SMAF and symbol

MECHANICAL DATA

- Case: SMAF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 27mg / 0.00095oz

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

Parameter		Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000us waveform		P_{PPM}	340	W
Peak Forward Surge Current (Note 2,Fig 4)		I_{FSM}	60	A
Peak Pulse Current on 10/1000 us waveform (Note 1, Fig 2)		I_{PPM}	see Table 1	A
ESD Voltage per IEC61000-4-2	Contact Air	V_{ESD1} V_{ESD2}	± 8 ±15	kV
Typical Thermal Resistance Junction to Ambient(Note 2)		$R_{\theta JA}$	100	°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 0.2" X 0.2" (5 X 5 mm) copper pad areas.

Characteristics at Ta = 25°C

Table 1

Type	Marking	V_{RMW}	Breakdown Voltage		Test Current	Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current
			V_{BR} @ I_T		I_T	I_R @ V_{RWM}	V_C @ I_{PP}	I_{PP}
			Min	Max				
UNI	UNI	V	V	V	mA	μA	V	A
SMAF3.4J200A	SV	200	224	247	1	1	324	1.05
SMAF3.4J220A	SX	220	246	272	1	1	356	0.95

Fig.1 Peak Pulse Power Rating Curve

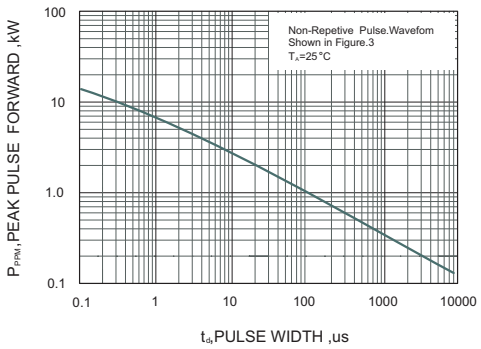


Fig.2 Forward Current Derating Curve

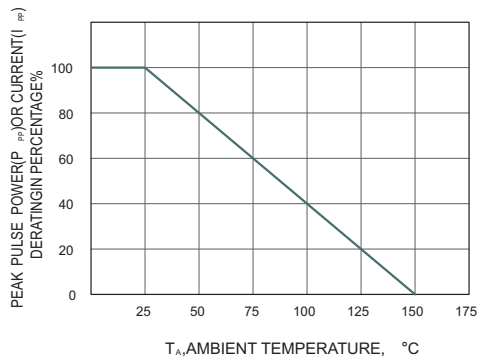


Fig.3 Pulse Waveform

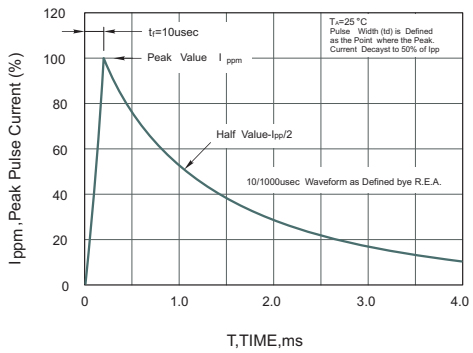
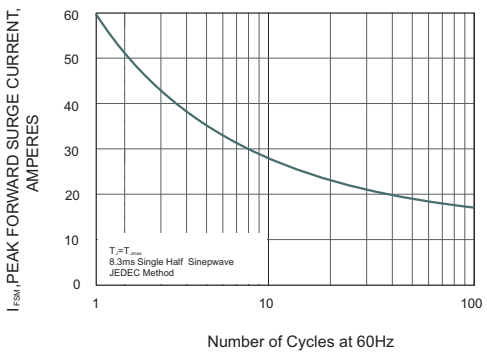


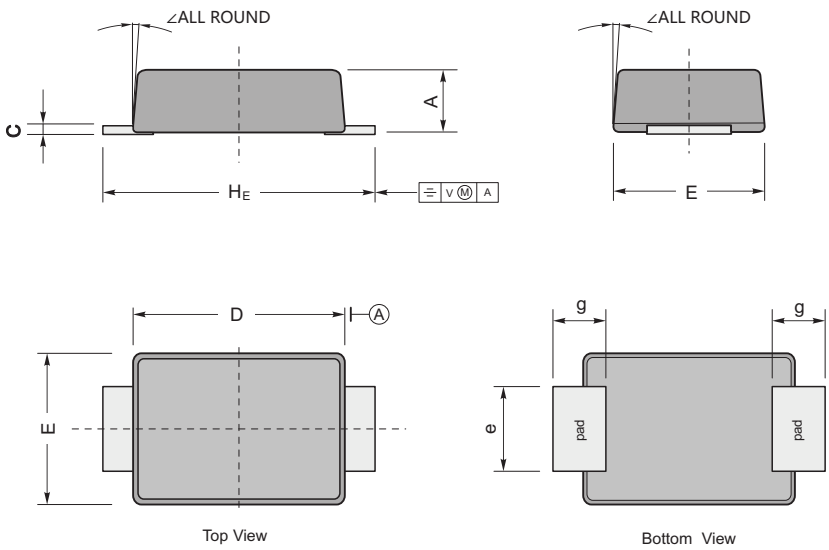
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



PACKAGE OUTLINE

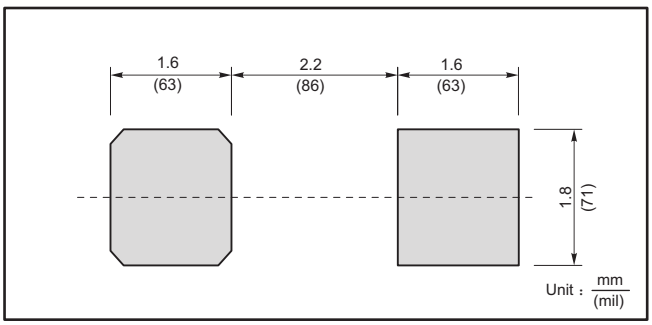
Plastic surface mounted package; 2 leads

SMAF



UNIT		A	C	D	E	e	g	H_E	∠
mm	max	1.2	0.20	3.7	2.7	1.6	1.2	4.9	7°
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	
mil	max	47	7.9	146	106	63	47	193	
	min	35	4.7	130	94	51	31	173	

The recommended mounting pad size



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