Surface mount transient voltage suppressor power 170 watts

Stand-Off Voltage: 440 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

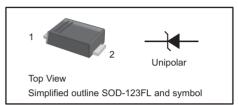
•Case: SOD-123FL

•Terminals: Solderable per MIL-STD-750, Method 2026

•Approx. Weight:15mg/0.00048oz

PINNING

PIN	DESCRIPTION					
1	Cathode					
2	Anode					



Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

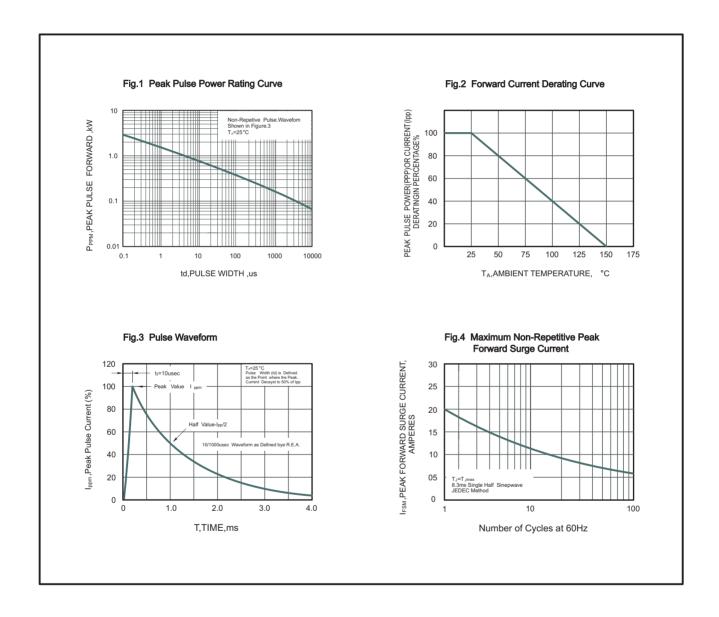
Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation on TA=25°C (Note 1,2,5, Fig1)	P _{PPM}	170	W
Peak Forward Surge Current (Note 3)	I _{FSM}	20	А
Peak Pulse Current on 10/1000 us waveform (Note 1 Fig 2)	I _{PPM}	see Table1	А
Steady State Power Dissipation (Note 4)	P _{M(AV)}	1	W
Typical Thermal Resistance(Note 6)	R _{eJA}	105	°C/W
Operating Junction and Storage Range	T_{j}, T_{stg}	-55 to +150	°C

NOTES

- 1. Non-repetitive current pulse per Fig 3 and derated above $T_{\scriptscriptstyle A} \text{=} 25\,^{\circ}\text{C}$ per Fig 2
- 2. Mounted on 5mm^2 copper pads to each terminal
- 3. 8.3ms single half sinewave, or equivalent square wave duty cycle=4 pulses per minutes maximum
- 4. lead temperature at T_L=75 °C
- 5. Peak pulse powe. waveform is tp=10/1000us
- 6. P.C.B. mounted with 0.2" X 0.2" (5 X 5 mm) copper pad areas.

Characteristics at Ta = 25°C Table 1

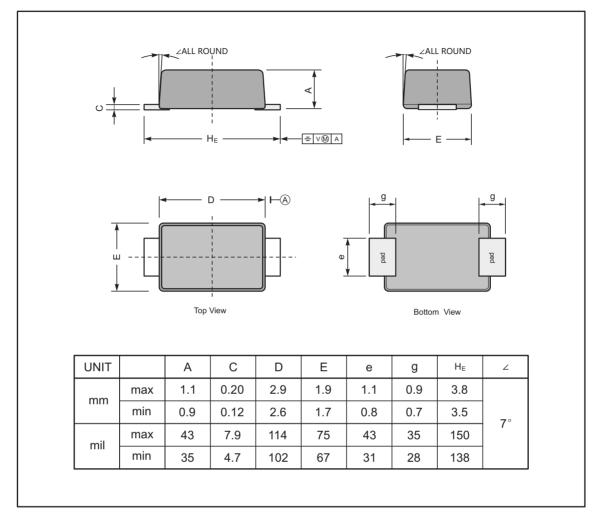
Туре	Marking	V _{RMW}	Breakdown Voltage		Test Current	Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current
			V _{BR} @ I _T			I _R @ V _{RWM}	V _c @ I _{PP}	l
			Min	Max	'Т	- R S FRWM	¥C @ 1pp	Ірр
UNI	UNI	v	v	V	mA	μA	V	Α
SMF1.7J440A	E44	440	492	543	1	1	713	0.25



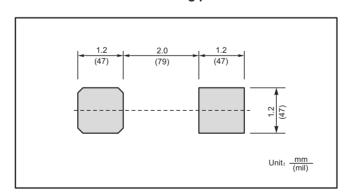
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



The recommended mounting pad size



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