200Watts
Transient Voltage Suppressor
SMF3.3CA

Features

- Glass passivated chip
- 200 W peak pulse power capability with a 10/1000 us waveform, repetitive rate (duty cycle):0.01 %
- Excellent clamping capability
- Low reverse leakage
- Very fast response time
- Lead and body according with RoHS standard

SMF
SOD-123FL

Mechanical Characteristics

- JEDEC SOD-123FL package
- Molding compound flammability rating: UL 94V-0
- Marking: Marking Code
- Packaging: Tape and Reel per EIA 481

Applications

- I/O Interfaces
- Power lines
- Automotive and Telecommunication
- Computers & Consumer Electronics
- Industrial Electronics

Maximum Ratings & Thermal Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified.)

Parameter	Symbols	Value	Unit
Peak power dissipation with a 10/1000 us waveform(1)	P_{PP}	200	W
Peak pulse current wih a 10/1000 us waveform(1)	I_{PP}	13.6	A
Power dissipation on infinite heatsink at TL = 75 °C	P_D	1.0	W
Operating junction and storage temperature range	T_J , T_{STG}	-55 to +150	℃

1) Non-repetitive current pulse per Fig.5 and derated above TA= 25 °C per Fig.1 ;

2) Measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum ;

Electrical Characteristics

Part Number	Device Marking Code	Reverse Stand-off Voltage	Breakdown Voltage V_{BR} @ I_T		Test Current	Max. Clamping Voltage @ Ipp	Max. Peak Pulse Current	Max. Reverse Leakage @ V_{RWM}
BI -POLAR	BI	V_{RWM}(V)	Min.(V)	Max.(V)	I_T(mA)	V_C MAX.(V)	I_{PP}(A)	I_R(uA)
SMF3.3CA	3V3C	3.30	4.60	5.60	100	7.3	13.6	2000

Ratings and Characteristics Curves (TA=25℃ unless otherwise noted)

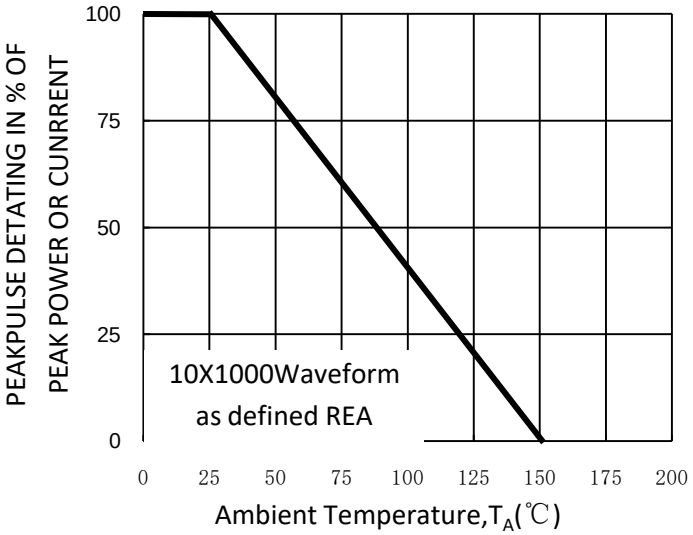


Fig. 1-Pulse Derating Curve

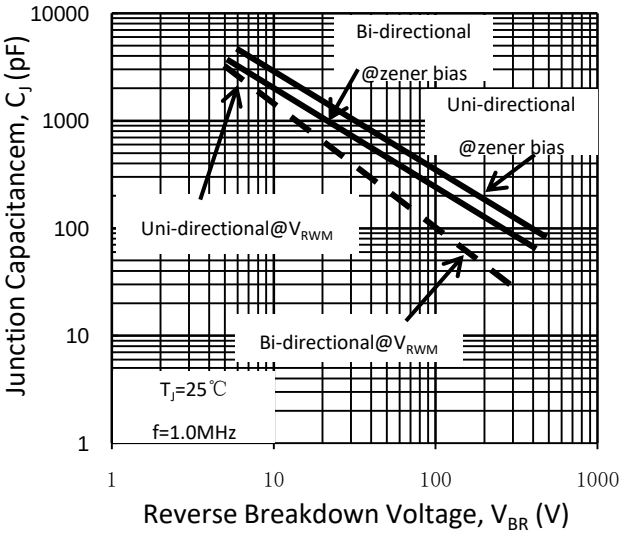


Fig. 2-Typical Junction Capacitance

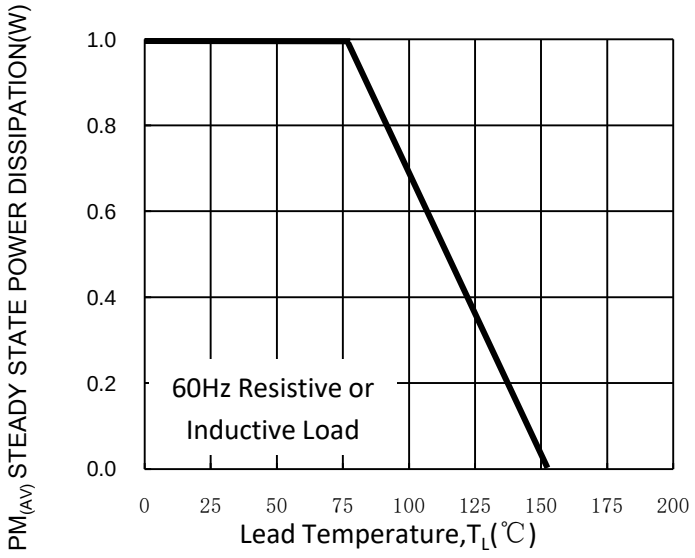


Fig. 3-Steady State Power Derating Curve

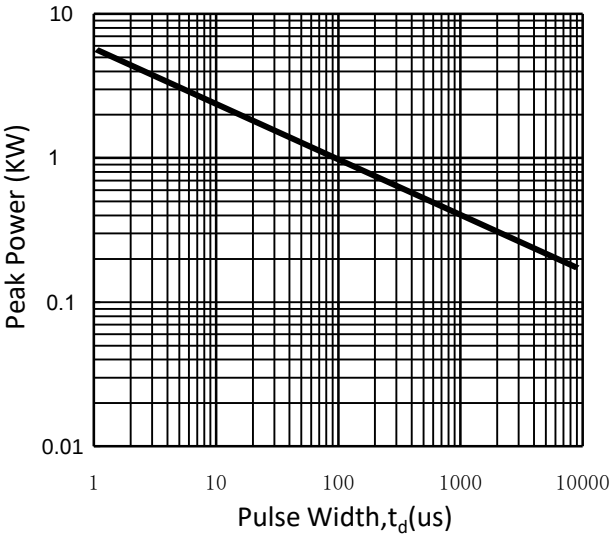


Fig. 4-Peak Pulse Power Rating Curve

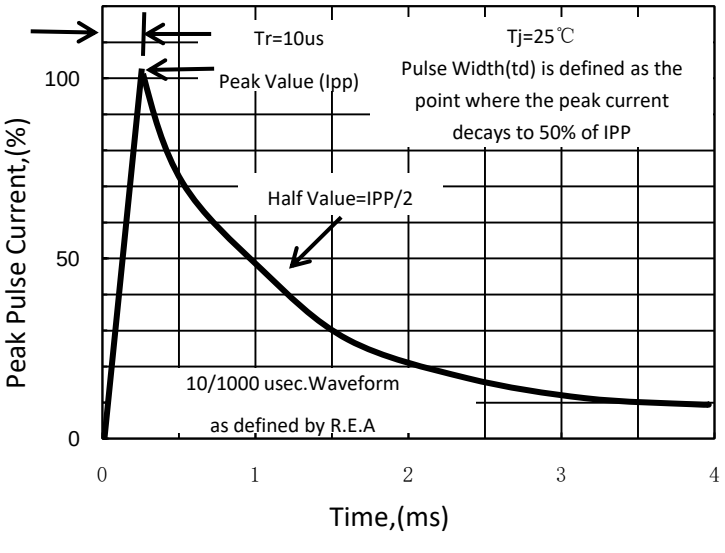
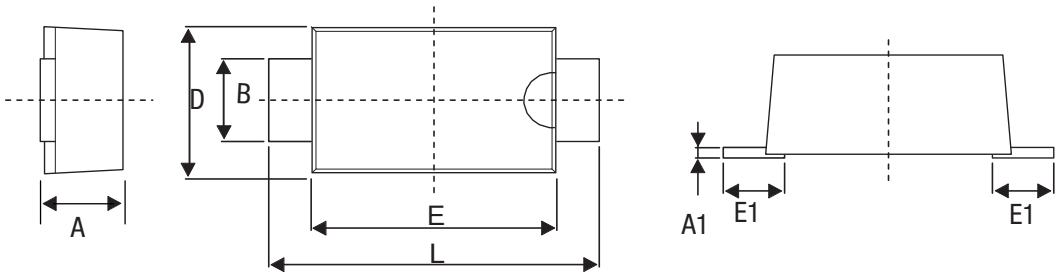


Fig. 5-Pulse Waveform

Dimensions (Unit: mm)



A		A1		B		E		E1		D		L	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1.200	1.400	0.150	0.250	0.800	1.100	2.700	2.900	0.350	0.850	1.750	1.950	3.500	3.900

Package Information

Qty：3,000 /Tape and reel

Part Marking System