

Features

- Ultra thin profile package for space constrained utilization.
- High temperature soldering: 260 °C/10 seconds at terminals
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard



SOD-123HE

Mechanical Data

- Case: Molded plastic, SOD-123HE
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Approx. Weight: 0.0006 ounces, 0.0184 grams



Maximum Ratings and Thermal Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Pulse Power Dissipation($t_p = 10/1000\text{ us}$)	$P_{PP}^{(1,2)}$	400	W
Peak Pulse Current on $t_p = 10/1000\text{ us}$ waveform ^(Fig.2)	$I_{PPM}^{(1)}$	See table 1	A
ESD IEC61000-4-2(Air)	V_{ESD}	± 30	kV
ESD IEC61000-4-2(Contact)		± 30	
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}^{(3)}$	185	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	-55~150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65~150	$^\circ\text{C}$

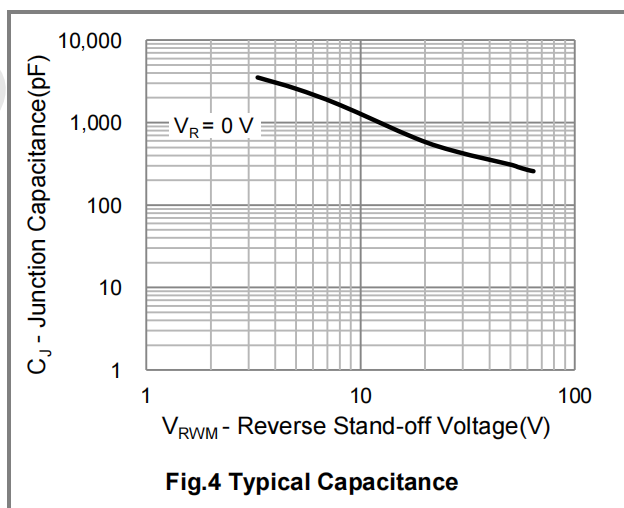
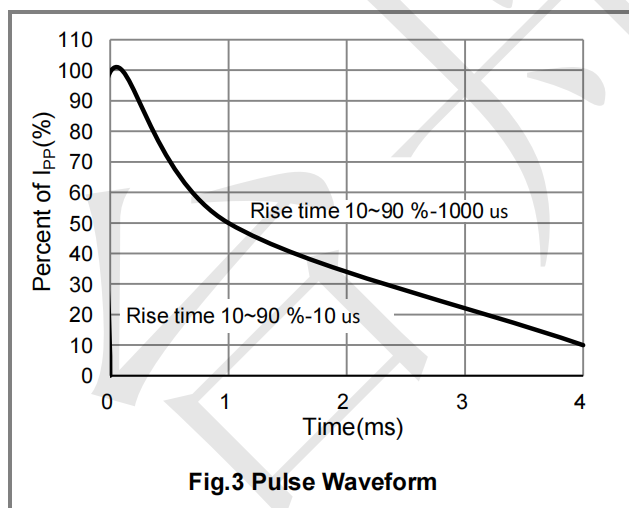
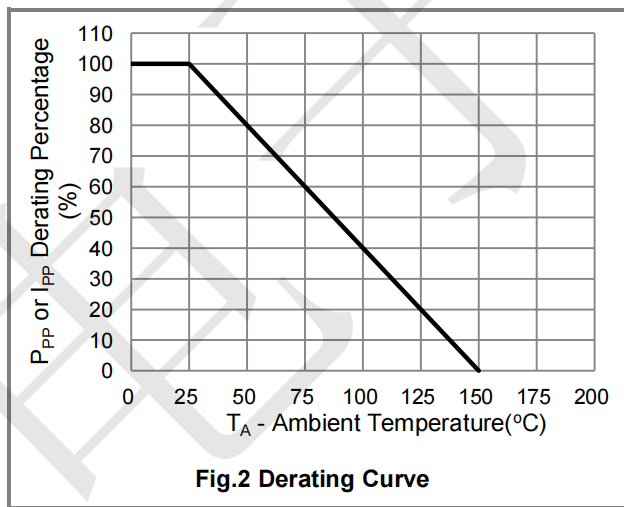
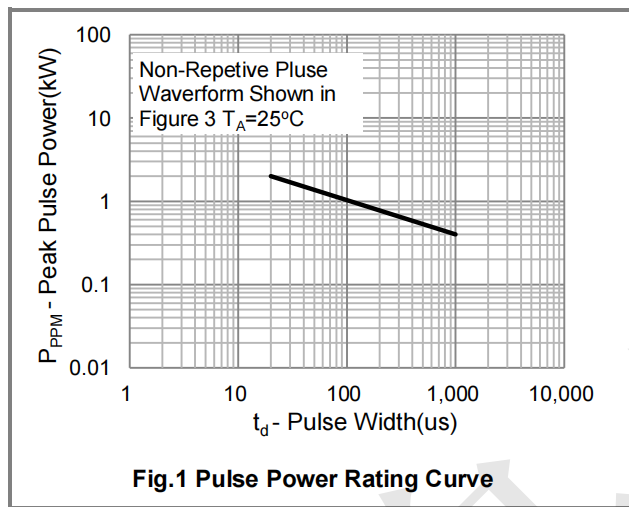
Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Part Number	V_{RWM}	V_{BR}			$I_R@V_{RWM}$	$V_C@I_{PP}$	
		Min.	Max.	I_T			
	V	V	V	mA	μA	V	A
400W Transient Voltage Suppressor							
SMH14A-TP	14	15.6	17.2	1	0.1	23.2	17.2

NOTES:

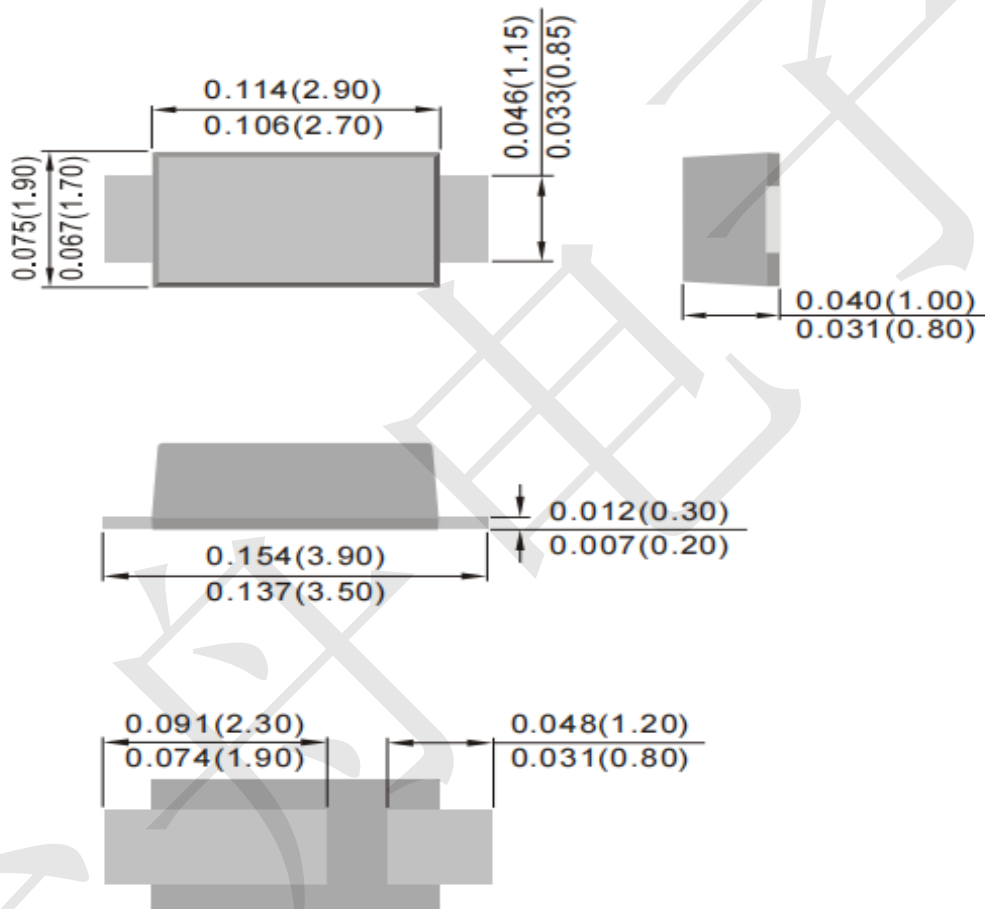
1. Non-repetitive current pulse, per Fig.3 and derated above $T_A = 25^\circ\text{C}$ per Fig.2
2. Mounted on 5mm^2 copper pads to each terminal
3. Mounted on a FR4 PCB, single-sided copper, mini pad
4. TVS is a transient protection device, it is strongly recommended not to use as a Zener.

TYPICAL CHARACTERISTIC CURVES



Package information (Unit: mm)

SOD-123HE



Mounting Pad Layout (Unit: mm)

