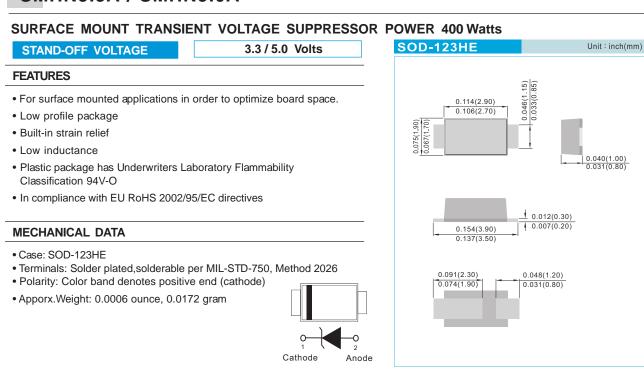




## SMHN3.3A / SMHN5.0A



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Rating	Symbol	Value	Units
Peak Pulse Power Dissipation on T $_{\rm A}$ = 25 °C (Notes 1,2,4, Fig.1)	P <sub>PPM</sub>	400	Watts
Peak Forward Surge Current per Fig.5 (Note 3)	I <sub>FSM</sub>	40	Amps
Peak Pulse Current on 10/1000 $\mu$ s waveform(Note 1)Fig.2	l <sub>PPM</sub>	see Table 1	Amps
Typical Thermal Resistance Junction to Air (NOTE 2)	$R_{_{\thetaJA}}$	107	°C / W
Operating Junction and Storage Temperature Range	Tj,Tstg	-55 to +150	°C

Part Number	Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current	· Marking Code
	Vrwm	Vbr @ It		L	Ir @ Vrwm	N - @	1	
		Min.	Max.	Ιτ	UNI	Vc@lpp	I PP	
UNI	V	V	V	mA	μΑ	V	А	UNI
400W Transient	Voltage Suppress	or						
SMHN3.3A	3.3	5.32	5.88	100	500	7.5	55	HDA
SMHN5.0A	5	6.4	7.25	100	200	9.2	43.5	HEA

NOTES:

1. Non-repetitive current pulse, per Fig.3 and derated above  $T_{A} = 25$  °C per Fig. 2.

2. Mounted on 5.0mm<sup>2</sup> copper pads to each terminal.

3. 8.3ms single half sine-wave, or equivalent square wave, duty cycle = 4 pulses per minutes maximum.

4. Peak pulse power waveform is  $10/1000\mu$ S.





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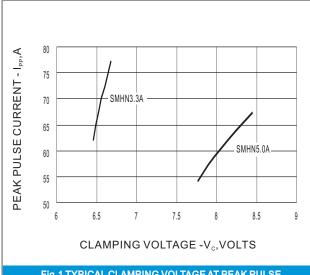
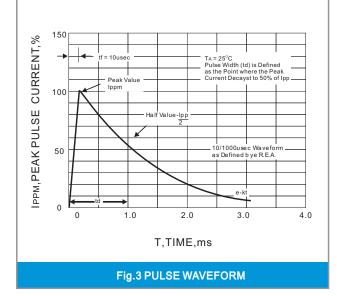


Fig.1 TYPICAL CLAMPING VOLTAGE AT PEAK PULSE CURRENT(10/1000µs)



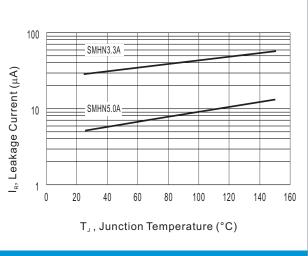


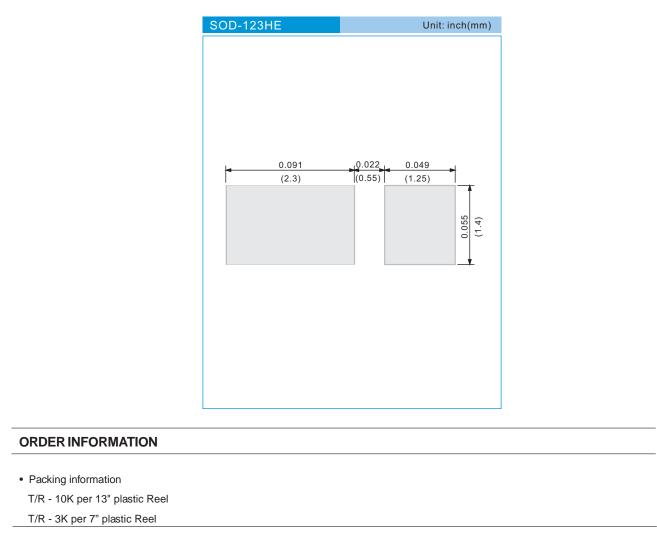
Fig 2. Typical Reverse Characteristics





# SMHN3.3A / SMHN5.0A

### **MOUNTING PAD LAYOUT**



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