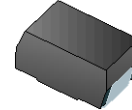


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

**FEATURES**

- Ideal For Surface Mount Applications
- Easy Pick and Place
- Built-In Strain Relief
- Low Forward Voltage Drop

**SMA**



**MECHANICAL DATA**

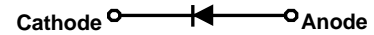
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Case: Molded plastic
- Epoxy: UL94-V0 rate flame retardant

**PACKAGE INFORMATION**

Package	MPQ	Leader Size
SMA	5K	13 inch

**ORDER INFORMATION**

<b>Part Number</b>	<b>Type</b>
SM1150A-C	Lead (Pb)-free and Halogen-free



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Ratings	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	150	V
Maximum RMS Voltage	$V_{RMS}$	105	V
Maximum DC Blocking Voltage	$V_{DC}$	150	V
Average Rectified Output Current @ $T_L=100^\circ C$	$I_F$	1	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	35	A
Forward Voltage @ $I_F=1A$	$V_F$	0.9	V
Peak Reverse Current @Rated DC Blocking Voltage	$I_R$	$T_A=25^\circ C$	0.05
		$T_A=100^\circ C$	5
Typical Junction Capacitance <sup>1</sup>	$C_J$	35	pF
Thermal Resistance Junction-Lead <sup>2</sup>	$R_{\theta JL}$	75	°C/W
Operating & Storage Temperature	$T_J, T_{STG}$	-55~150	°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 4V D.C.
2. Device mounted on FR-4 substrate, 1" \* 1", 2oz, single-sided, PC boards with 0.1" \* 0.15" copper pad.

**RATINGS AND CHARACTERISTIC CURVES**

Fig. 1 Forward Current Derating Curve

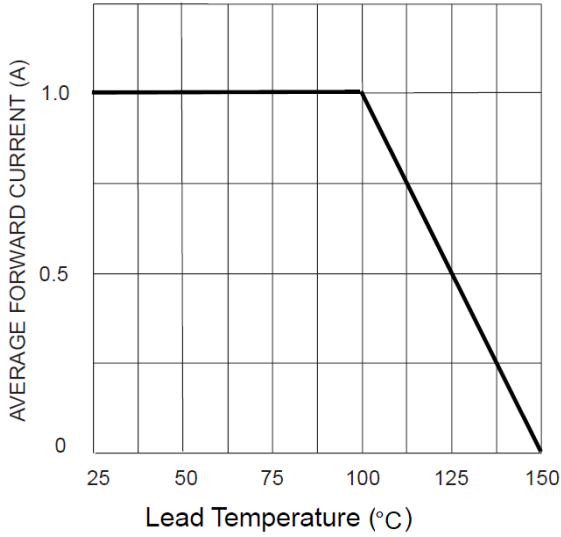


Fig. 2 Typ. Forward Characteristics

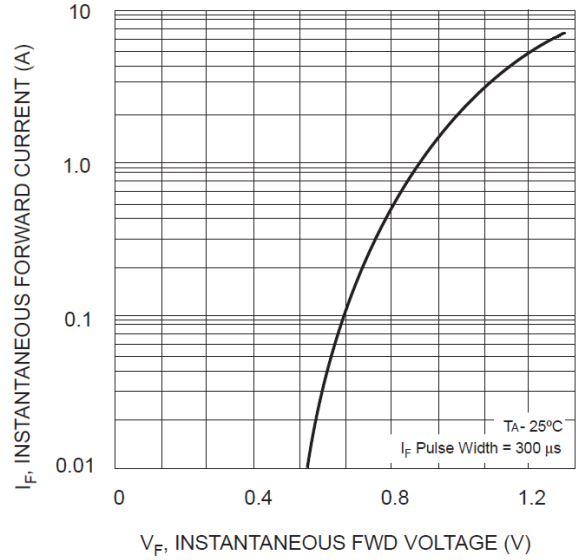


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

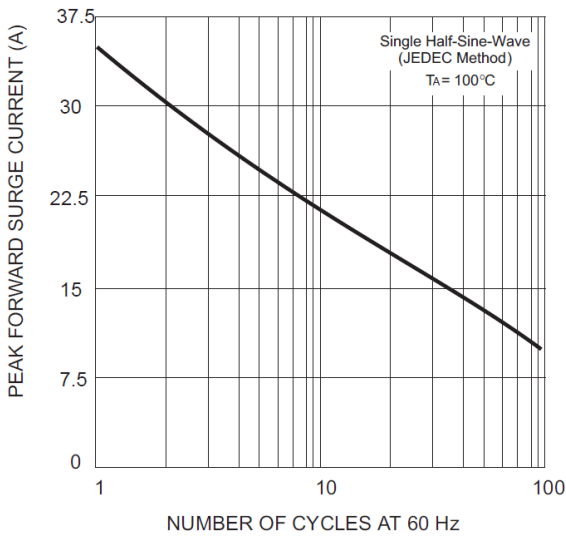
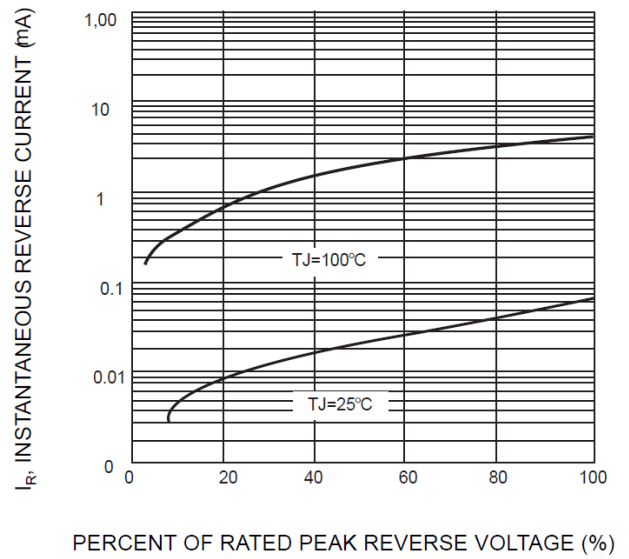
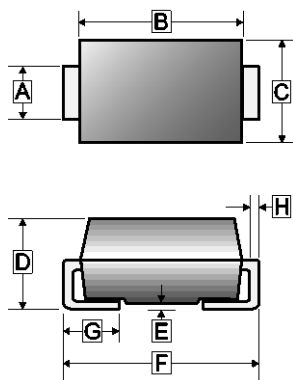


Fig. 4 Typical Reverse Characteristics (per element)



**PACKAGE OUTLINE DIMENSIONS**

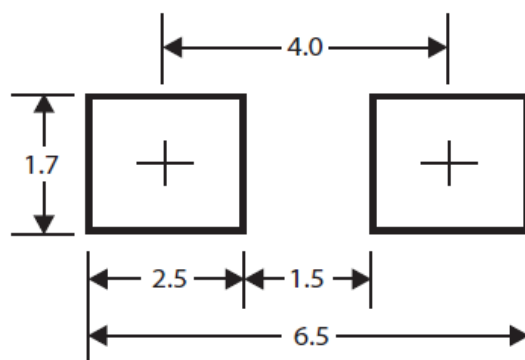
SMA



REF.	Millimeter	
	Min.	Max.
A	1.23	1.65
B	3.99	4.75
C	2.30	2.90
D	1.90	2.62
E	-	0.30
F	4.70	5.28
G	0.75	1.52
H	0.15	0.31

**MOUNTING PAD LAYOUT**

SMA



\*Dimensions in millimeters