

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

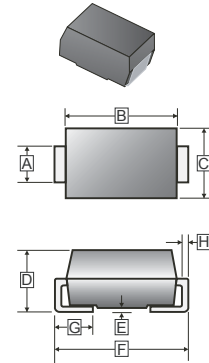
## FEATURES

- Low profile package
- Ideal for automated placements
- Guard ring for over voltage protection
- Low forward voltage drop

## MECHANICAL DATA

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead free plating (Tin finish) Solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Weight: 0.093 grams (approximately)

### SMA



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.25	1.65	E	0.051	0.203
B	3.99	4.60	F	4.78	5.28
C	2.50	2.90	G	0.76	1.52
D	1.98	2.44	H	0.152	0.305

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

## 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%.)

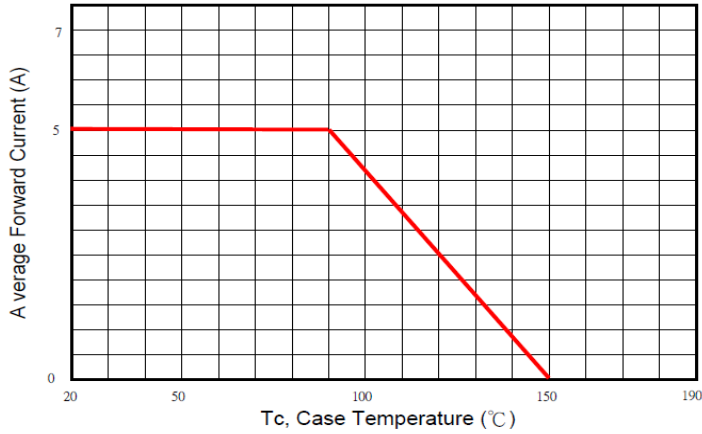
Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Working Peak Reverse Voltage	$V_{RMS}$	40	V
Maximum DC Blocking Voltage	$V_{DC}$	40	V
Maximum Average Forward Rectified Current	$I_F$	5	A
Peak Forward Current @ 8.3 ms Half Sine	$I_{FSM}$	125	A
Maximum Instantaneous @ $I_F=5A$	$V_F$	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ C$	0.5	mA
	$T_A=100^\circ C$	8	
Typical Junction Capacitance <sup>1</sup>	$C_J$	600	pF
Typical Thermal Resistance	$R_{\theta JA}$	55	°C / W
	$R_{\theta JC}$	20	
Operating & Storage Temperature	$T_J, T_{STG}$	-55~150, -65~175	°C

Notes:

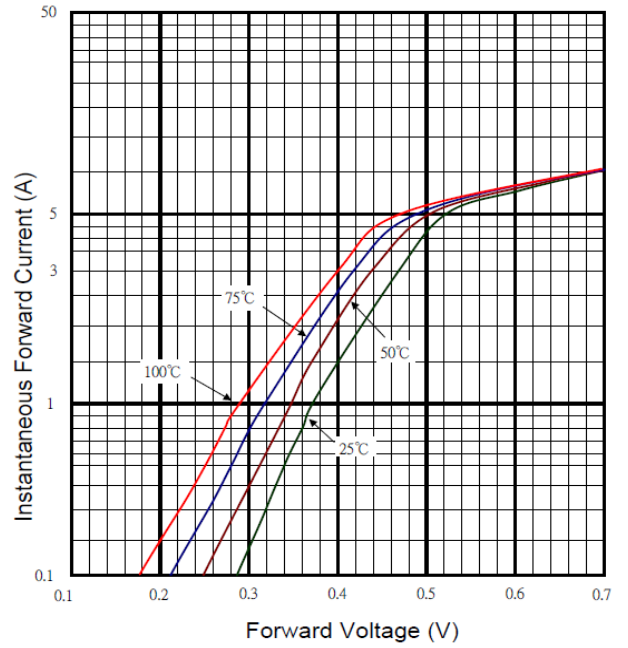
1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.

**RATINGS AND CHARACTERISTIC CURVES**

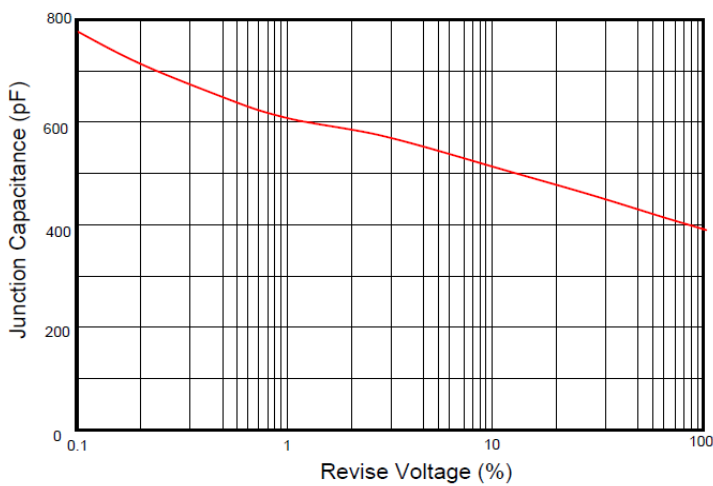
Typical Forward Current Derating Curve



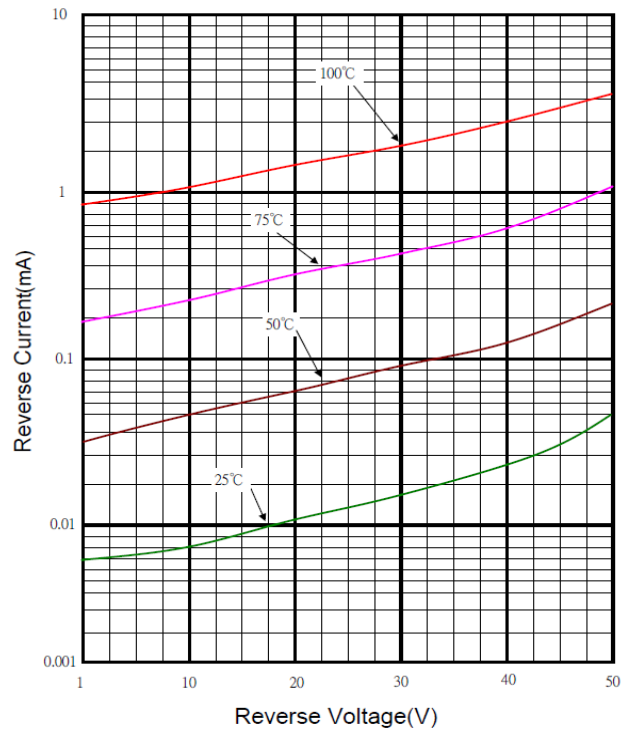
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

