

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

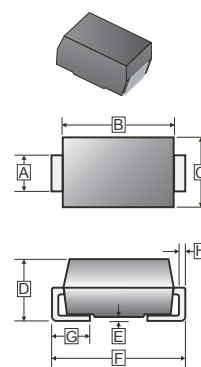
FEATURES

- 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%.)

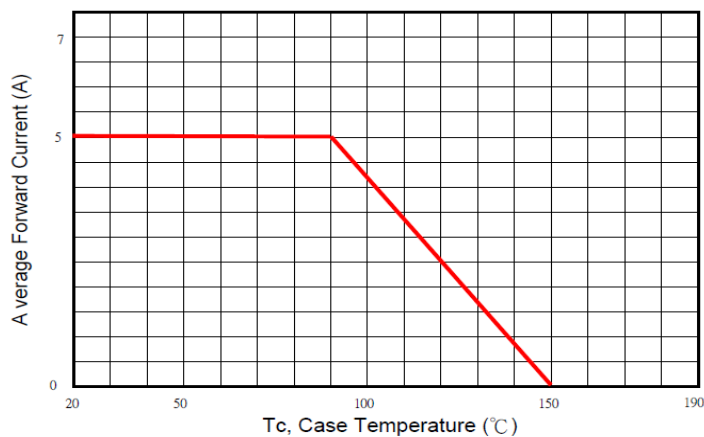
Parameter		Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	40	V
Working Peak Reverse Voltage		V _{RWM}	40	V
Maximum DC Blocking Voltage		V _{DC}	40	V
Maximum Average Forward Rectified Current		I _F	5	A
Peak Forward Current @ 8.3 ms Half Sine		I _{FSM}	125	A
Maximum Instantaneous @ I _F =5A		V _F	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage ²	T _A =25°C	I _R	0.5	mA
	T _A =100°C		8	
Typical Junction Capacitance ¹		C _J	600	pF
Typical Thermal Resistance		R _{θJA}	55	°C / W
		R _{θJC}	20	
Operating & Storage Temperature		T _J , T _{STG}	-55~150, -65~175	°C

Notes:

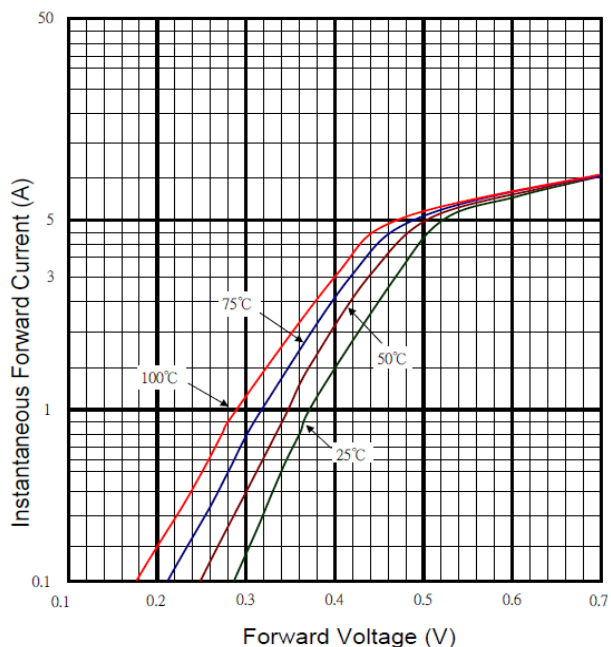
1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.

RATINGS AND CHARACTERISTIC CURVES

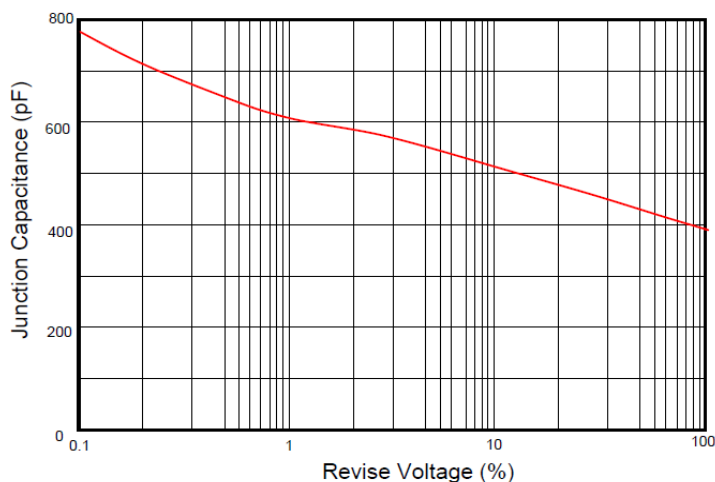
Typical Forward Current Derating Curve



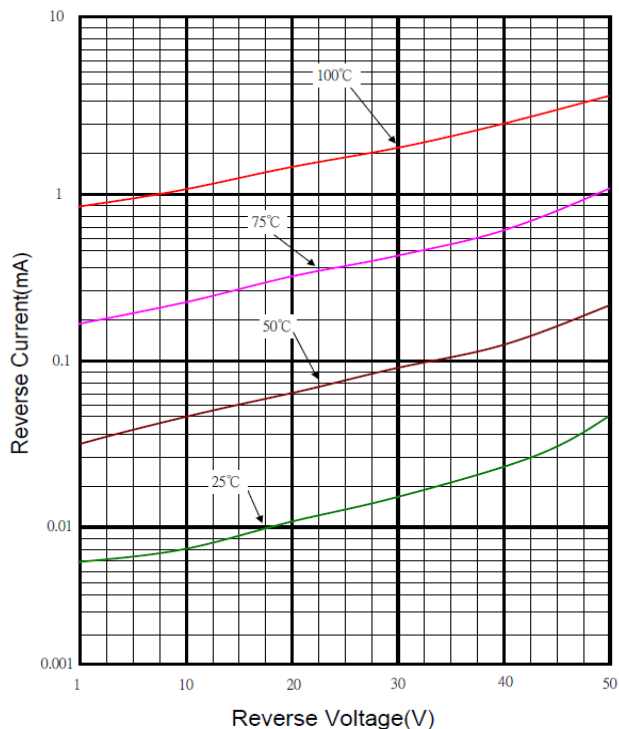
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

