

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

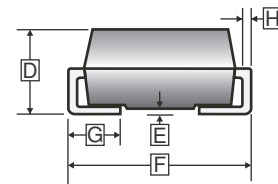
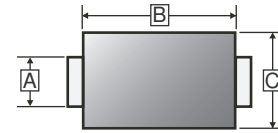
FEATURES

- 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	1.24	1.65	E	-	0.203
B	3.99	4.60	F	4.80	5.28
C	2.40	2.90	G	0.76	1.52
D	1.90	2.44	H	0.15	0.305

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	1K	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%.)

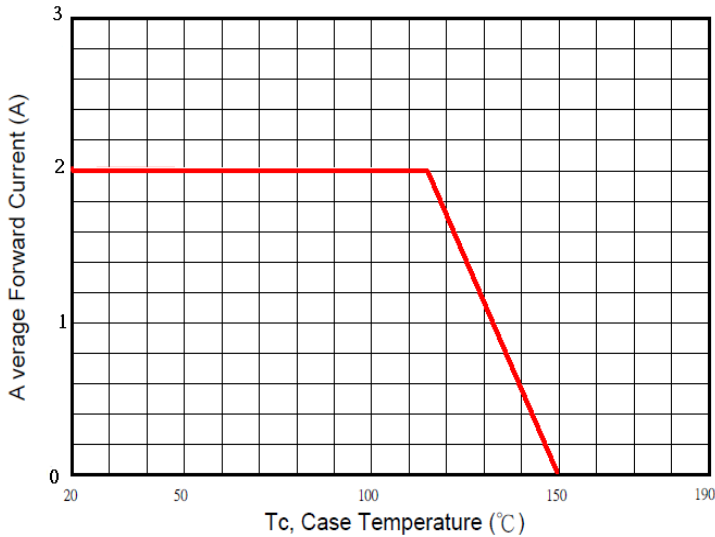
Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Working Peak Reverse Voltage	V_{RMS}	60	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current	I_F	2	A
Peak Forward Current @ 8.3 ms Half Sine	I_{FSM}	125	A
Maximum Instantaneous @ $I_F=2A$	V_F	0.5	V
Maximum DC Reverse Current at Rated DC Blocking Voltage ²	$T_J=25^\circ C$	0.2	mA
	$T_J=100^\circ C$	8	
Typical Junction Capacitance ¹	C_J	350	pF
Typical Thermal Resistance	$R_{\theta JL}$	30	°C / W
	$R_{\theta JC}$	35	
Operating & Storage Temperature	T_J, T_{STG}	-55~150	°C

Notes:

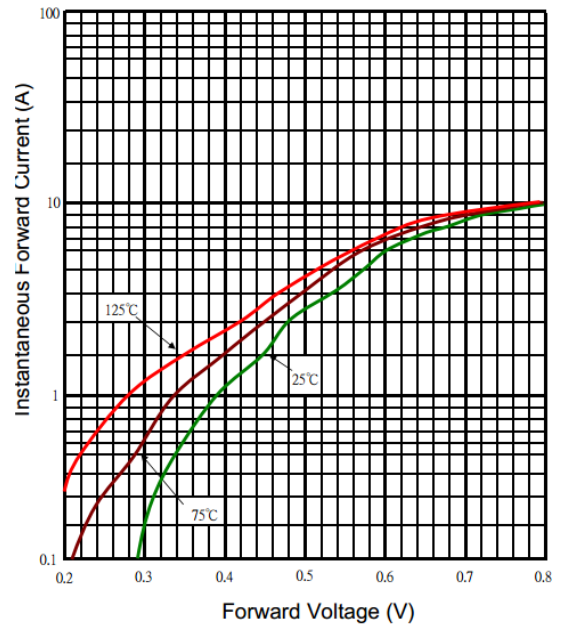
1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.

RATINGS AND CHARACTERISTIC CURVES

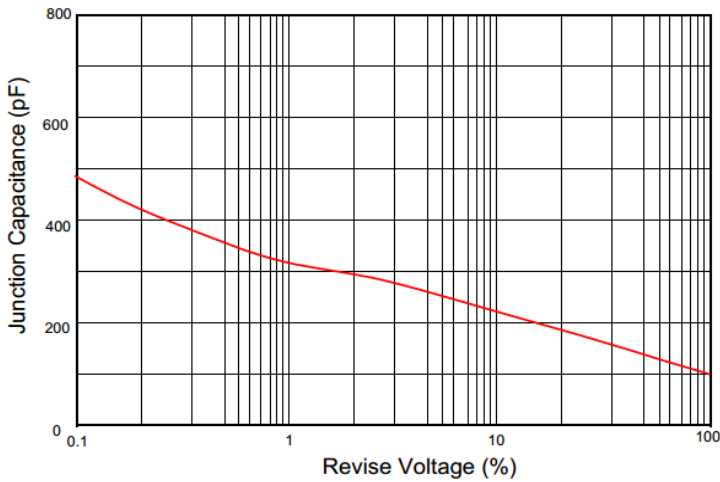
Typical Forward Current Derating Curve



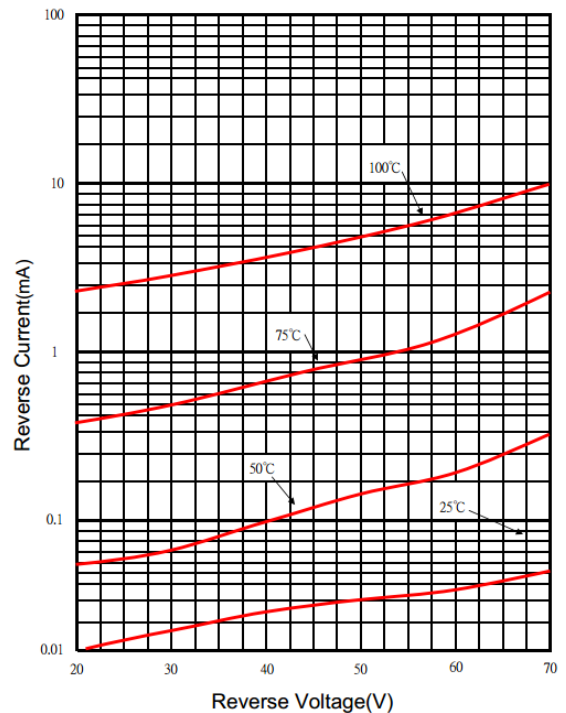
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

