

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

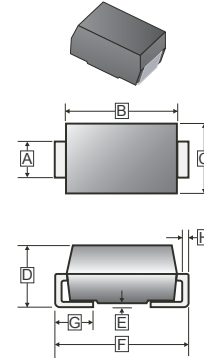
**FEATURES**

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop

**PACKAGING INFORMATION**

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Metallurgically bonded construction
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any
- Weight: 0.063 g (approximate)

**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%.)

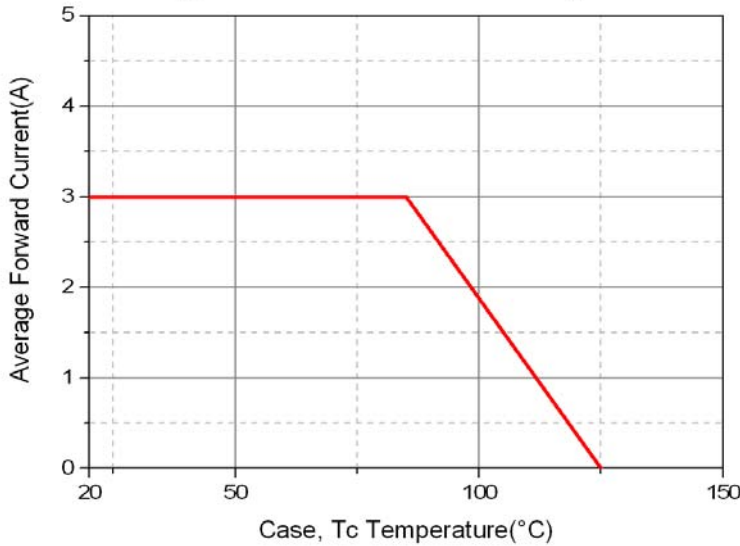
Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	V
Working Peak Reverse Voltage	$V_{RWM}$	40	V
Maximum DC Blocking Voltage	$V_R$	40	V
Maximum Average Forward Rectified Current See Fig. 1	$I_{F(AV)}$	3	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	90	A
Maximum Instantaneous Forward Voltage@ $I_F=3A$	$V_F$	0.4	V
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	$T_A = 25^\circ C$	1.5
		$T_A = 80^\circ C$	60
Typical Thermal Resistance	$R_{\theta JL}$	30	$^\circ C / W$
	$R_{\theta JC}$	35	$^\circ C / W$
Typical Total Capacitance (CT) <sup>1</sup>	$C_T$	230	pF
Operating Temperature Range	$T_J$	-25~125	$^\circ C$
Storage temperature	$T_{STG}$	-25~125	$^\circ C$

NOTES:

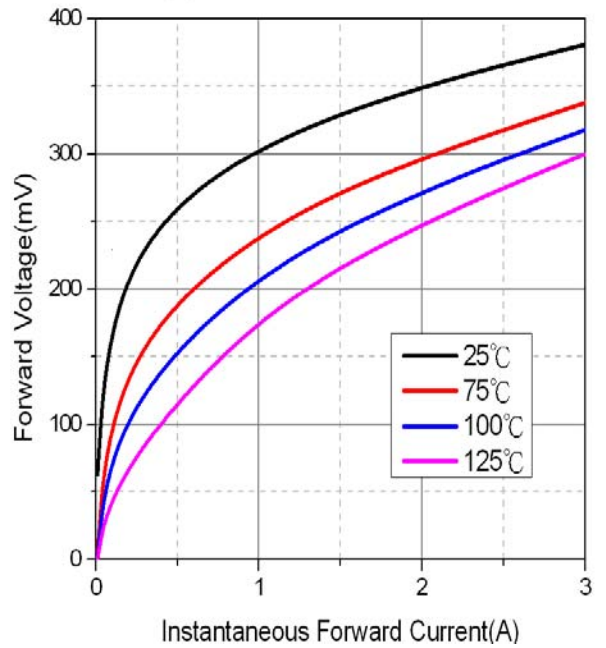
1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.

**RATINGS AND CHARACTERISTIC CURVES**

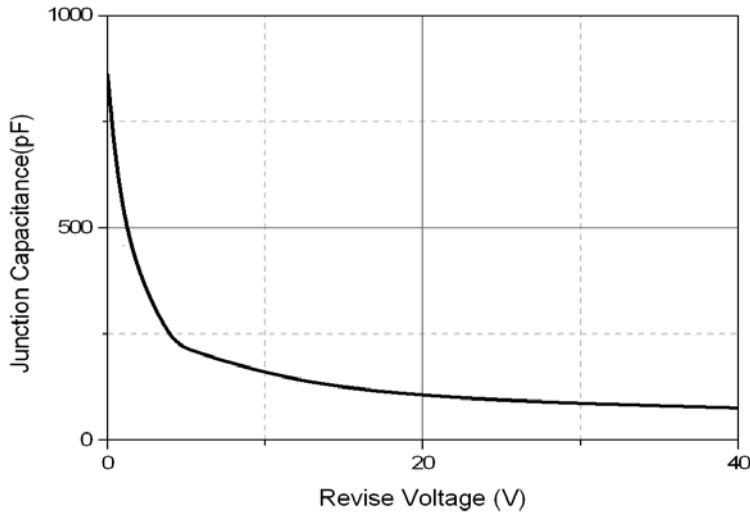
Typical Forward Current Derating Curve



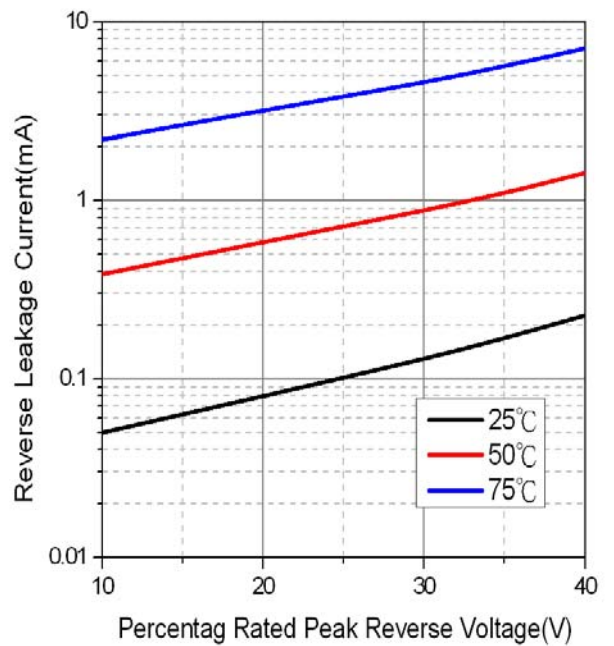
Typical Forward Characteristics



Typical Junction Capacitance (pF)



Typical Reverse Characteristics



Maximum Non-Repetitive Forward Surge Current

