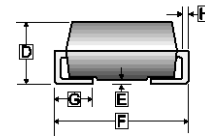
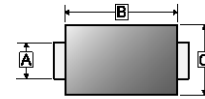
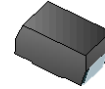


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

**FEATURES**

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering
- Low Reverse Current
- Qualified to AEC-Q101 Standards for High Reliability

**SMA**



**MECHANICAL DATA**

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Axial Leads, Solderable per MIL-STD-202 Method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.23	1.65	E	-	0.3
B	3.99	4.75	F	4.80	5.28
C	2.30	2.90	G	0.75	1.52
D	1.90	2.62	H	0.15	0.31

**PACKAGE INFORMATION**

Package	MPQ	Leader Size
SMA	5K	13 inch

**ORDER INFORMATION**

Part Number	Type
SM2200ACR-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%.)

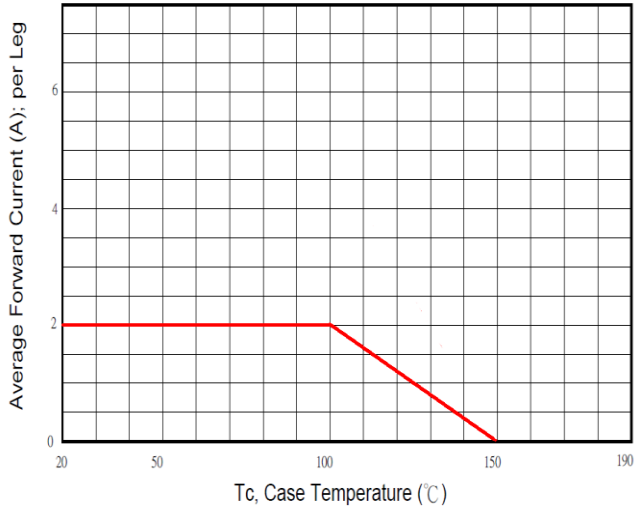
Parameter	Symbol	Ratings	Unit	
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V	
Working Peak Reverse Voltage	$V_{RWM}$	200		
Maximum DC Blocking Voltage	$V_R$	200		
Average Forward Current	$I_F$	2	A	
Peak Forward Current @8.3ms Half Sine	$I_{FSM}$	50	A	
Maximum Instantaneous Forward Voltage @ $I_F=2A$	$V_F$	$T_A=25^\circ C$	0.9	V
		$T_A=75^\circ C$	0.85	
		$T_A=125^\circ C$	0.72	
Maximum DC Reverse Current <sup>2</sup> @Rated DC Blocking Voltage	$I_R$	$T_J=25^\circ C$	0.2	mA
		$T_J=100^\circ C$	5	
Typical Junction Capacitance <sup>1</sup>	$C_J$	70	pF	
Thermal Resistance Junction-Ambient	$R_{\theta JA}$	80	°C/W	
Thermal Resistance Junction-Case	$R_{\theta JC}$	25	°C/W	
Voltage Rate of Change (Rated $V_R$ )	$dv/dt$	10000	V/ $\mu s$	
Operating Junction Temperature Range	$T_J$	-50~150	°C	
Storage Temperature Range	$T_{STG}$	-65~150		

Notes:

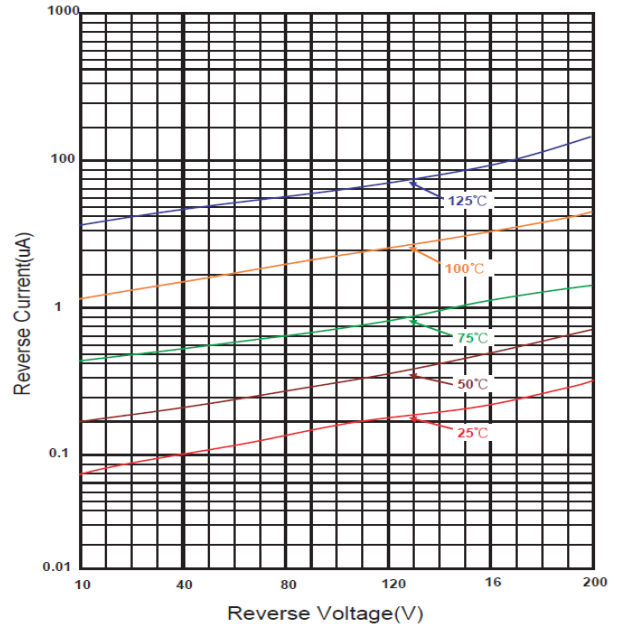
1. Measured at 1MHz and applied reverse voltage of 5V D.C.
2. Pulse test: 300us pulse width, 1% duty cycle.

**RATINGS AND CHARACTERISTIC CURVES**

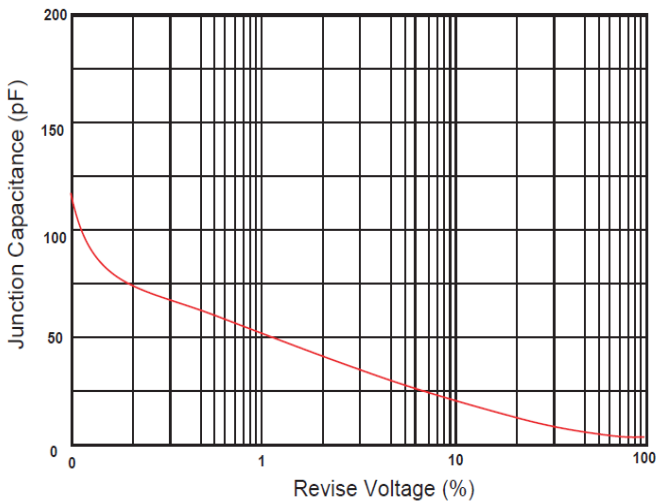
Typical Forward Current Derating Curve



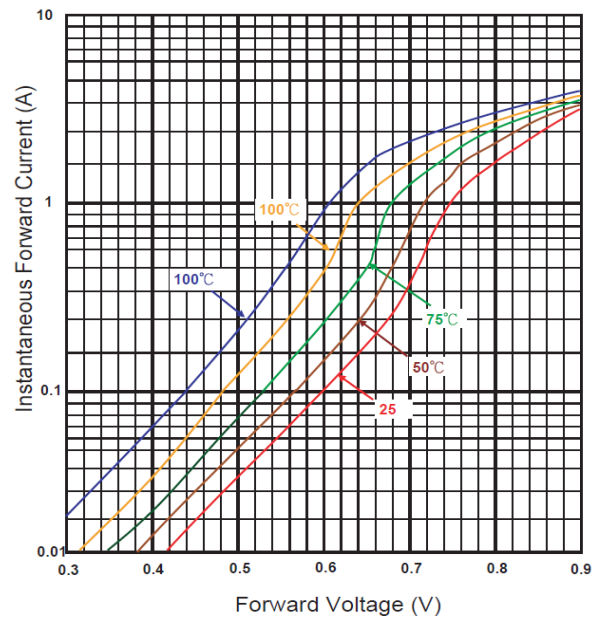
Typical Reverse Characteristic



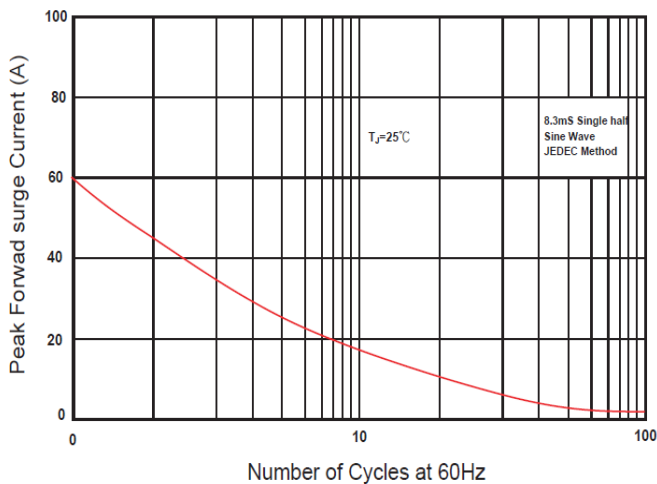
Typical Junction Capacitance



Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Mounting Pad Layout

