

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

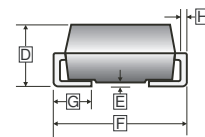
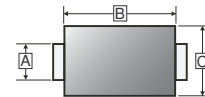
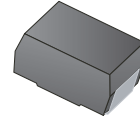
## FEATURES

- RoHS Compliant Product
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

## MECHANICAL DATA

- Case : Molded Plastic
- Epoxy : UL 94V-0 Rate Flame Retardant
- Metallurgically bonded construction
- Polarity : Color Band Denotes Cathode End
- Mounting Position: Any
- Weight : 1.10 grams

## SMC



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.75	3.15	E	-	0.203
B	6.60	7.11	F	7.75	8.13
C	5.59	6.22	G	0.76	1.27
D	2.00	2.62	H	0.15	0.31

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SMC	3K	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%.)

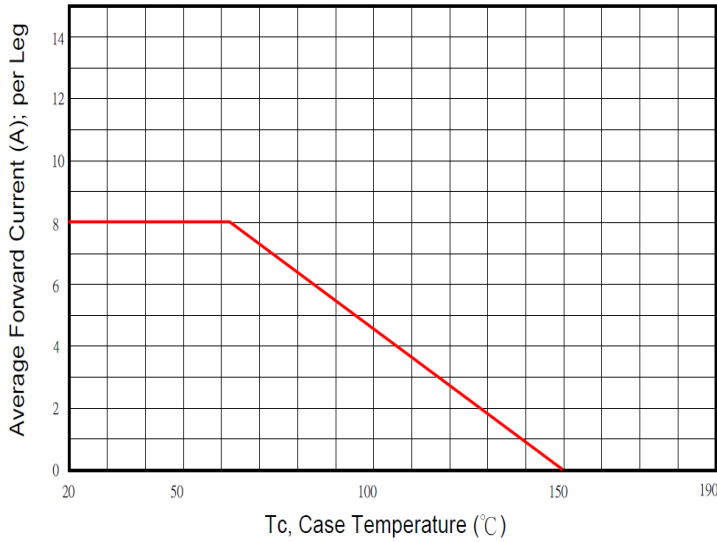
Parameter	Symbol	Rating	Unit
Peak Repetitive Peak reverse voltage	$V_{RRM}$	200	V
Working Peak Reverse Voltage	$V_{RWM}$	200	V
Maximum DC Blocking Voltage	$V_{DC}$	200	V
Maximum Average Forward Current, See Fig. 1	$I_F$	8	A
Peak Forward Surge Current @ 8.3 ms Half Sine-Wave superimposed on rated load (JEDEC method)	$I_{FSM}$	125	
Maximum Instantaneous Forward Voltage @ $I_F = 8A$	$V_F$	0.91	V
Maximum DC Reverse Current At Rated DC Blocking Voltage <sup>3</sup>	$T_J = 25^\circ C$	0.05	mA
	$T_J = 125^\circ C$	20	
Typical Junction Capacitance <sup>1</sup>	$C_J$	200	pF
Typical Thermal Resistance <sup>2</sup>	$R_{\theta JC}$	12	°C / W
Operating Temperature Range	$T_J$	-50 ~ 150	°C
Storage temperature	$T_{STG}$	-65 ~ 150	°C

### NOTES:

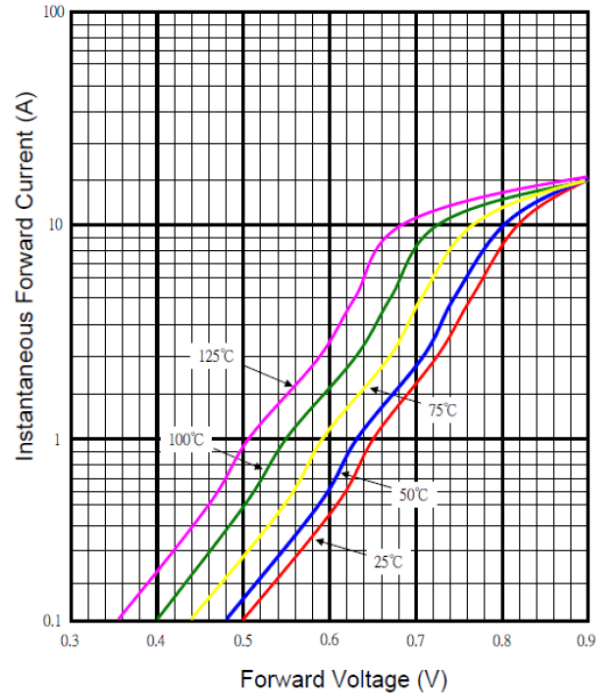
1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.
2. Thermal Resistance Junction to Lead
3. Pulse Test : Pulse Width = 300  $\mu s$ , Duty Cycle  $\leq$  2.0%.

**CHARACTERISTIC CURVES**

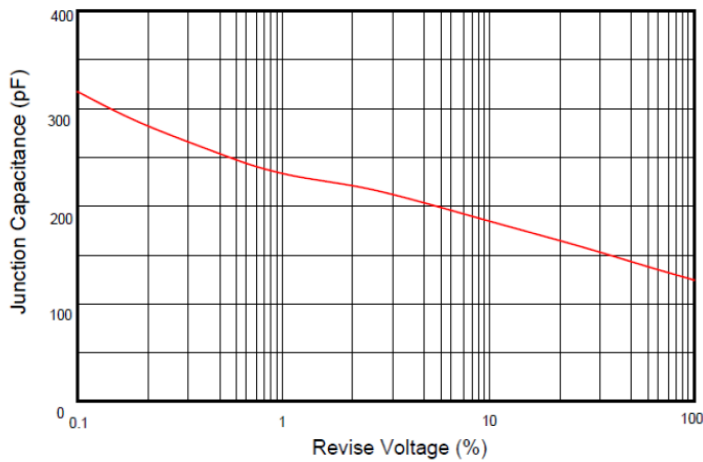
Typical Forward Current Derating Curve



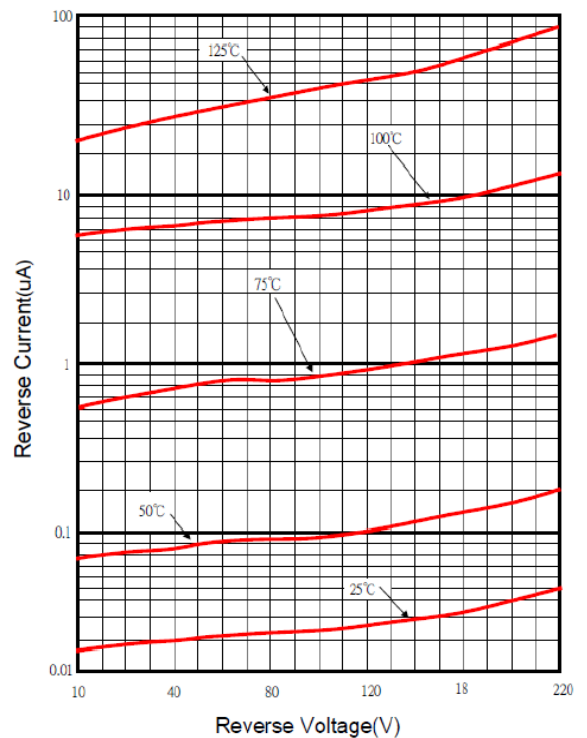
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

