

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 : 250°C for 10 Seconds at Terminals
- Low Reverse Current

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

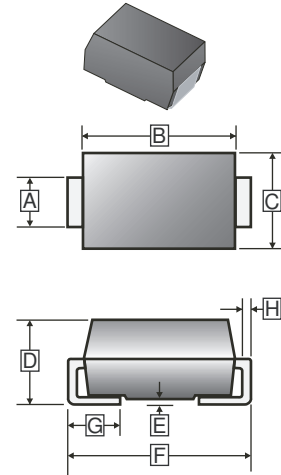
PACKAGE INFORMATION

Package	MPQ	Leader Size
SMC	3K	13 inch

ORDER INFORMATION

Part Number	Type
SEF112C	Lead (Pb)-free
SEF112C-C	Lead (Pb)-free and Halogen-free

SMC



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.750	3.270	E	-	0.203
B	6.520	7.110	F	7.640	8.130
C	5.50	6.220	G	0.750	1.520
D	1.980	2.620	H	0.23 TYP	

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 derate current by 20%.

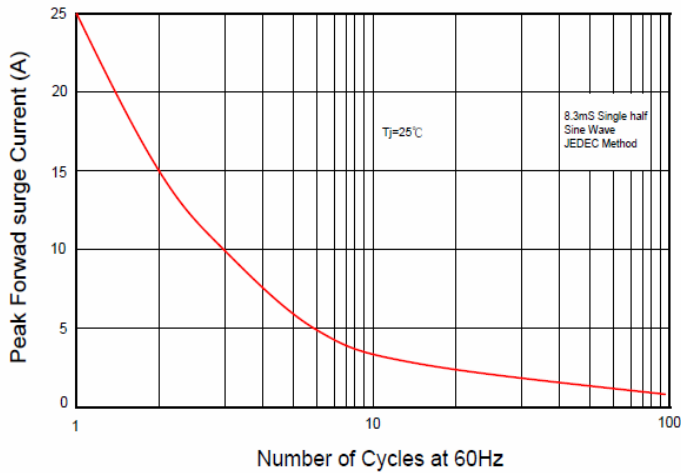
Parameter	Symbol	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	1200	V
RMS Voltage	V_{RMS}	850	V
Average Forward Current @ $T_J=25^\circ\text{C}$	$I_{F(AV)}$	1	A
Peak Forward Current @8.3ms, Single Half Sine Wave	I_{FSM}	25	A
Maximum Instantaneous Forward Voltage @ $I_F=1\text{A}$	V_F	$T_A=25^\circ\text{C}$	1.9 (Typ. 1.6)
		$T_A=125^\circ\text{C}$	1.6 (Typ. 1.2)
Maximum Reverse Current @ $V_R=1200\text{V}$	I_R	$T_J 25^\circ\text{C}$	5
		$T_J=125^\circ\text{C}$	50
Typical Junction Capacitance ¹	C_J	4.5	pF
Typical Thermal Resistance ²	$R_{\theta JA}$	55	°C/W
Reverse Recovery Time @ $I_F=0.5\text{A}$, $I_{RR}=0.25\text{A}$, $I_R=1\text{A}$	T_{RR}	75 (Typ. 60)	nS
Operating Junction and Storage Temperature	T_J, T_{STG}	-55~175	°C

Notes:

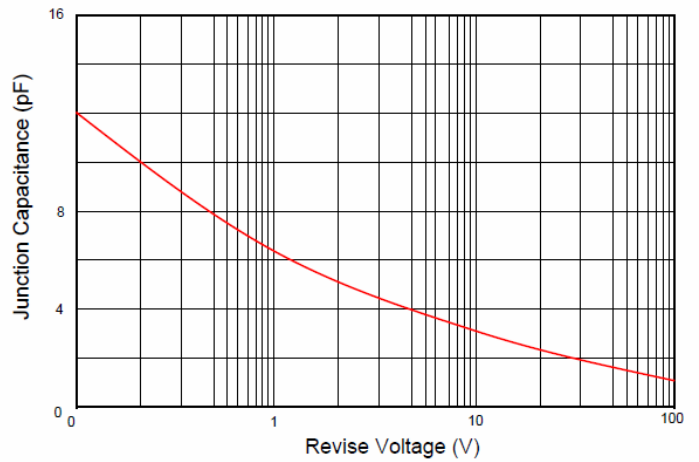
1. Measured at 1MHz and applied reverse voltage of 5V D.C.
2. Thermal Resistance Junction to Ambient. Printed circuit board FR4 copper pad 1×1cm, 35µm thickness.

RATINGS AND CHARACTERISTIC CURVES

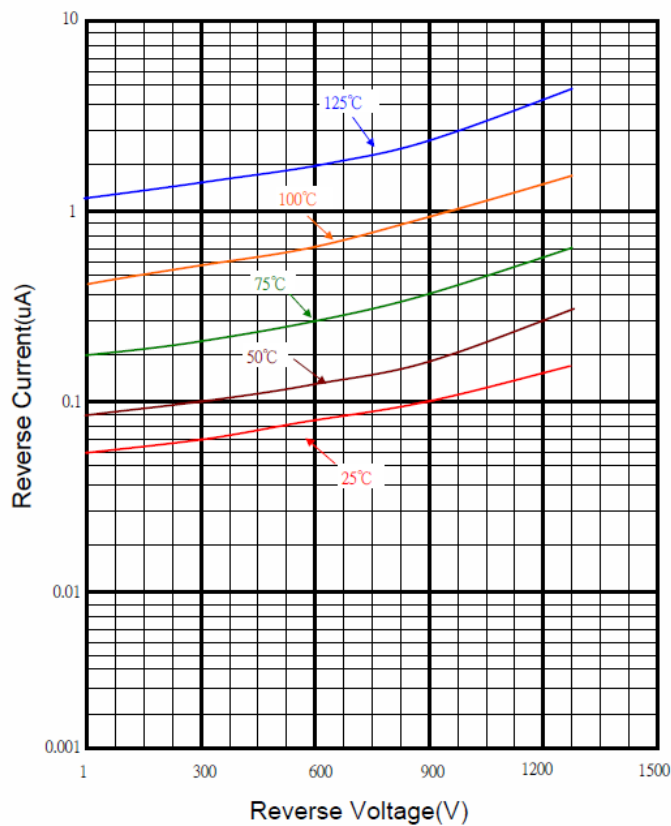
Maximum Non- Repetitive Forward Surge Current



Typical Junction Capacitance



Typical Reverse Characteristic



Typical Forward Characteristic

