

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

FEATURES

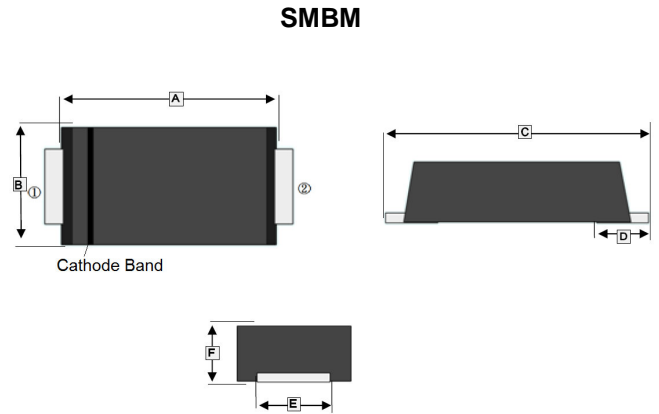
- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering
- Low Reverse Current

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
SMBM	5K	13 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.2	4.7	D	1.0	REF
B	3.4	3.8	E	1.8	2.2
C	5.1	5.5	F	1.1	1.45

ORDER INFORMATION

Part Number	Type
SEF112BM-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%.)

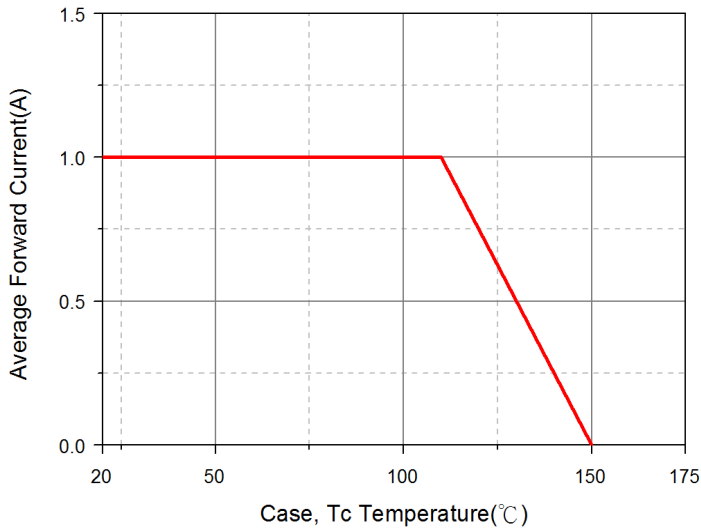
Parameter	Symbol	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	1200	V
RMS Voltage	V_{RMS}	850	V
Average Forward Current	$I_{F(AV)}$	1	A
Peak Forward Current @8.3ms, single half sine wave	I_{FSM}	25	A
Maximum Instantaneous Forward Voltage @ $I_F=1A$	V_F	$T_A=25^\circ C$	1.9 (Typ. 1.6)
		$T_A=125^\circ C$	1.6 (Typ. 1.2)
Maximum Reverse Current @ $V_R=1200V$	I_R	$T_J=25^\circ C$	5
		$T_J=125^\circ C$	50
Typical Junction Capacitance ²	C_J	4.5	pF
Reverse Recovery Time ¹	T_{RR}	75 (Typ. 60)	nS
Typical Thermal Resistance ³	$R_{\theta JC}$	20	°C/W
Operating Temperature Range	T_J	-50~150	°C
Storage temperature	T_{STG}	-55~150	°C

Notes:

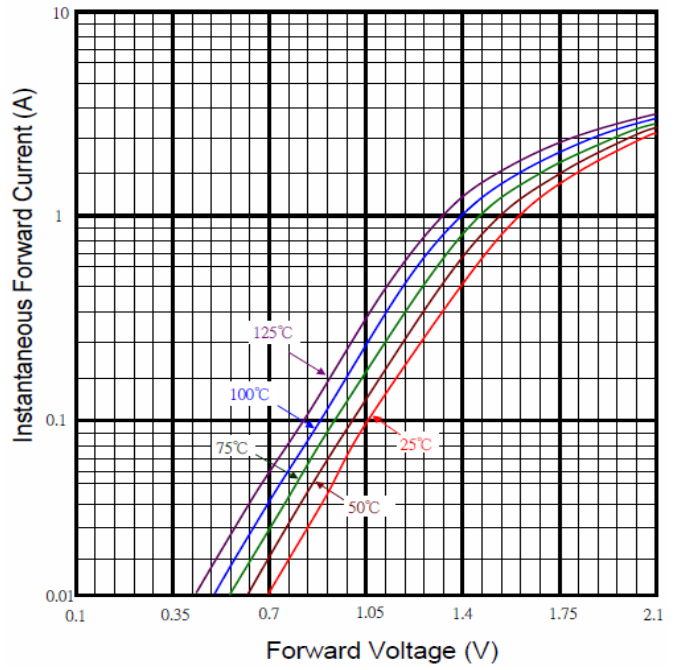
1. Measured with $I_F=0.5A$, $I_{RR}=0.25A$, $I_R=1A$.
2. Measured at 1MHz and applied reverse voltage of 5V D.C.
3. The device is mounted on a PCB with 2" x 2" (5 x 5 cm) copper pad areas.

RATINGS AND CHARACTERISTIC CURVES

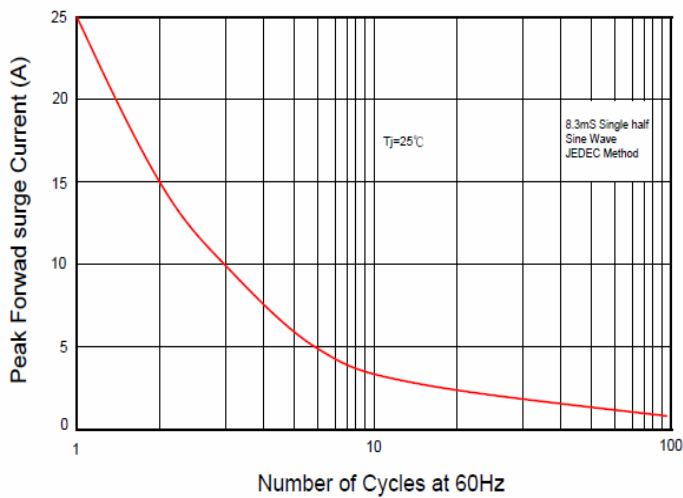
Typical Forward Current Derating Curve



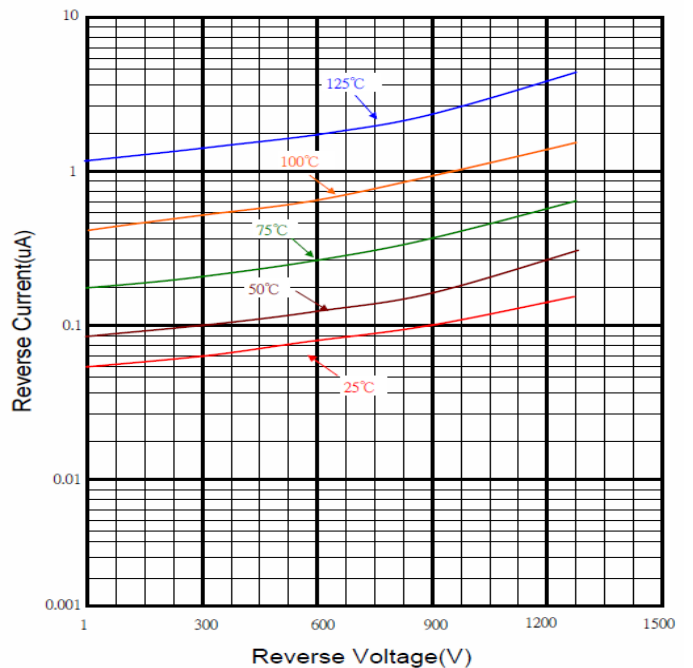
Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance

