

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

FEATURES

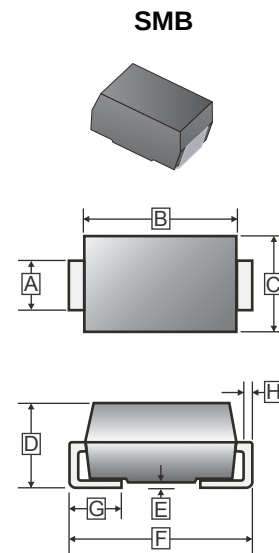
- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250°C for 10 Seconds at Terminals
- Low Reverse Current

MECHANICAL DATA

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

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMB	3K	13 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.91	2.20	E	-	0.203
B	4.06	4.70	F	5.08	5.59
C	3.30	3.94	G	0.76	1.52
D	2.13	2.44	H	0.15	0.305

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%.)

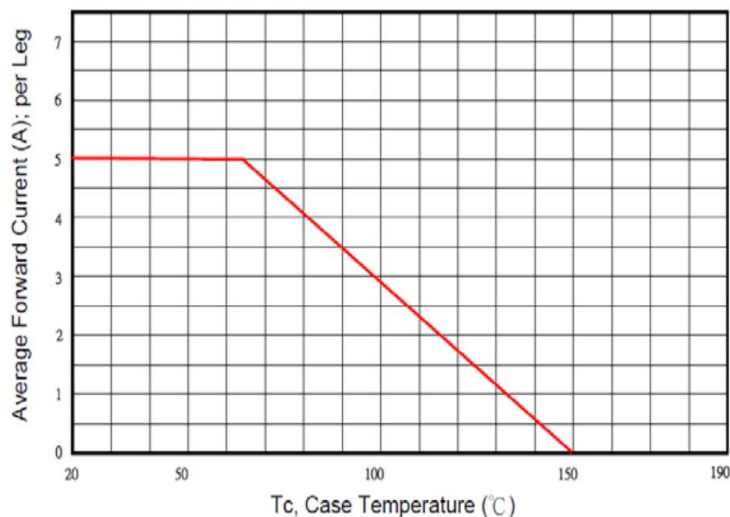
Parameter	Symbol	Rating	Unit
Peak Repetitive Peak reverse voltage	V_{RRM}	150	V
Working Peak Reverse Voltage	V_{RWM}	150	V
Maximum DC Blocking Voltage	V_R	150	V
Average Forward Current @ $T_J=25^\circ\text{C}$	$I_{F(AV)}$	5	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage	$I_{FM}=5.0\text{A}, T_A=25^\circ\text{C}$	0.83	V
	$I_{FM}=5.0\text{A}, T_A=75^\circ\text{C}$	0.73	
	$I_{FM}=5.0\text{A}, T_A=125^\circ\text{C}$	0.65	
Maximum DC Reverse Current at Rated DC Blocking Voltage ³	$T_J=25^\circ\text{C}$	50	μA
	$T_J=100^\circ\text{C}$	800	
Typical Junction Capacitance ¹	C_J	350	pF
Typical Thermal Resistance ²	$R_{\theta JC}$	20	$^\circ\text{C} / \text{W}$
Voltage Rate of Change (Rated V_R)	dv / dt	10000	$\text{V} / \mu\text{s}$
Operating & Storage Temperature	T_J, T_{STG}	-50~150, -65~175	$^\circ\text{C}$

Notes:

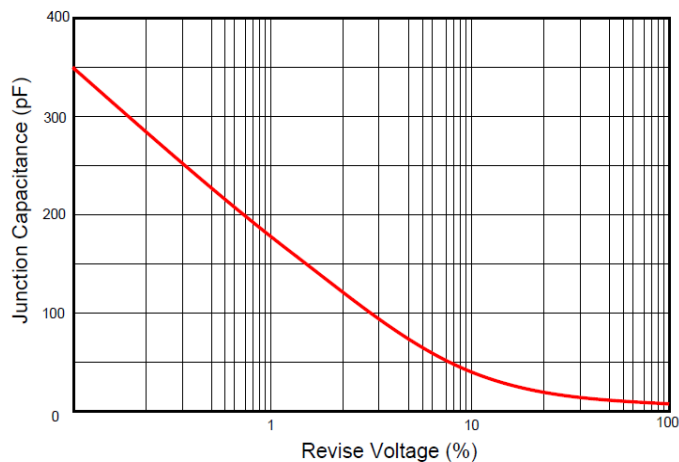
1. Measured at 1MHz and applied reverse voltage of 5.0 V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse Test : Pulse Width $\leq 300\mu\text{s}$, Duty Cycle $\leq 2.0\%$.

RATINGS AND CHARACTERISTIC CURVES

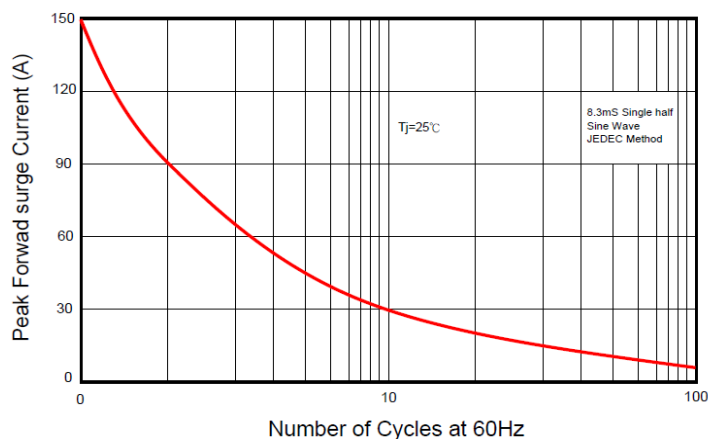
Typical Forward Current Derating Curve



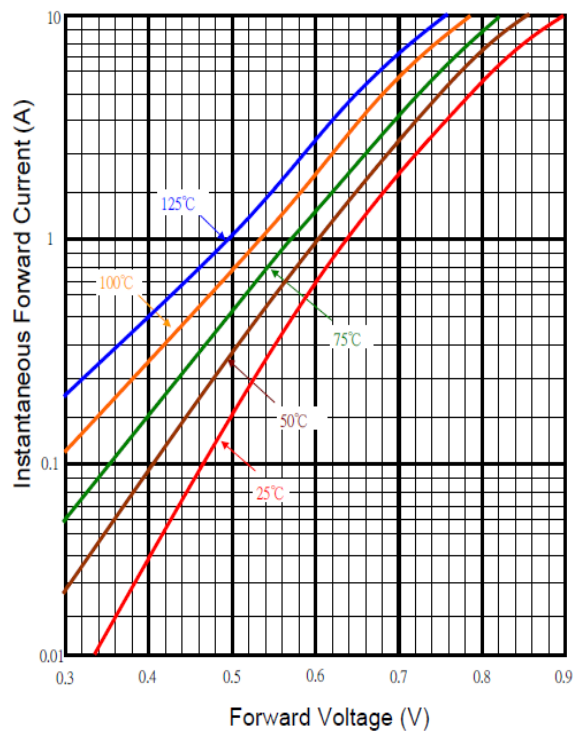
Typical Junction Capacitance



Maximum Non- Repetitive Forward Surge Current



Typical Forward Characteristic



Typical Reverse Characteristic

