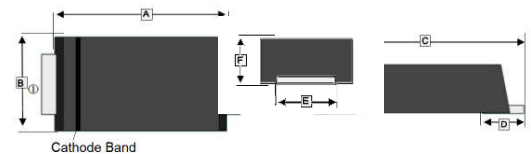


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

### FEATURES

- Surface mounted applications
- Low power loss
- High efficiency

### SMBM



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.2	4.4	D	1.0 REF	
B	3.5	3.7	E	1.9	2.2
C	5.1	5.5	F	1.1	1.3

### MARKING

Part Number	Marking Code	Part Number	Marking Code
SM220BM	S22B	SM2100BM	S210B
SM240BM	S24B	SM2150BM	S215B
SM260BM	S26B	SM2200BM	S220B

### PACKAGE INFORMATION

Package	MPQ	Leader Size
SMBM	5K	13 inch

### ABSOLUTE MAXIMUM RATINGS

(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%.)

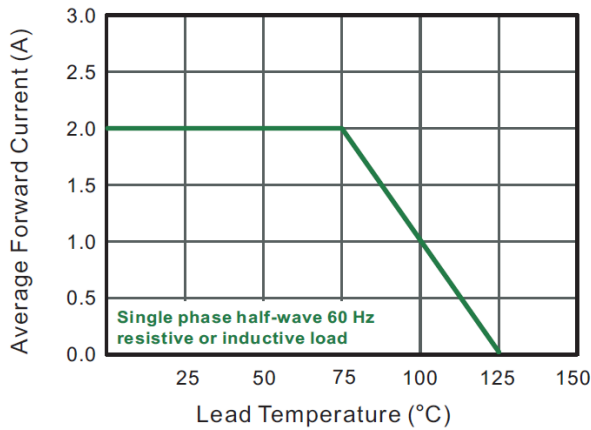
Parameter	Symbol	Part Number						Unit
		SM 220BM	SM 240BM	SM 260BM	SM 2100BM	SM 2150BM	SM 2200BM	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	40	60	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	14	28	42	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	60	100	150	200	V
Maximum Average Forward Rectified Current	$I_F$	2						A
Peak Forward Surge Current@ 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	55			45			A
Maximum Instantaneous Forward Voltage @ $I_F=2A$	$V_F$	0.55		0.7	0.85	0.95		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ C$	0.5			0.3			mA
	$T_A=100^\circ C$	5			3			
Typical Junction Capacitance <sup>1</sup>	$C_J$	250			110			pF
Typical Thermal Resistance from Junction to Ambient <sup>2</sup>	$R_{\theta JA}$	65						°C/W
Junction and Storage Temperature	$T_J, T_{STG}$	125, -55 ~ 150						°C

#### Notes:

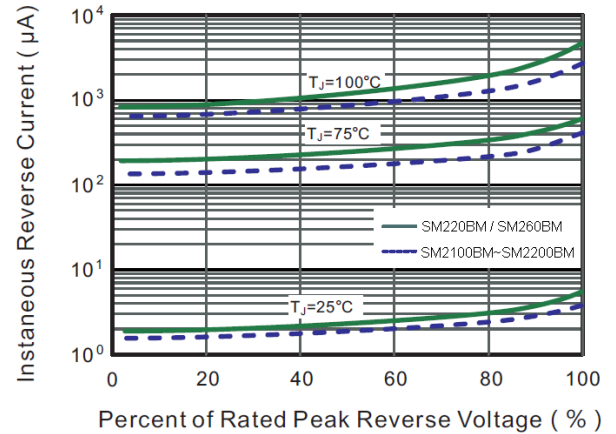
1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7mm) copper pad areas.

**CHARACTERISTIC CURVES**

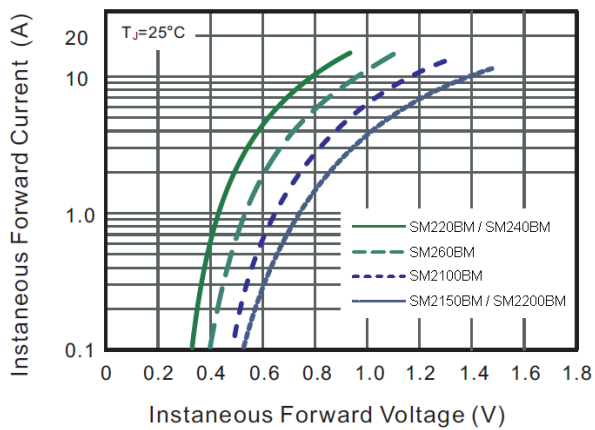
**Fig.1 Forward Current Derating Curve**



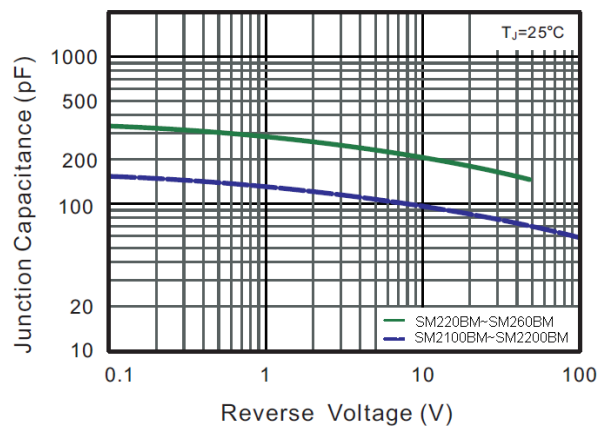
**Fig.2 Typical Reverse Characteristics**



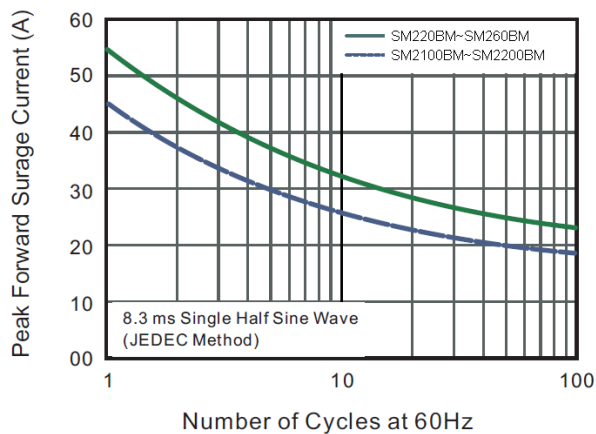
**Fig.3 Typical Forward Characteristic**



**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.6 Typical Transient Thermal Impedance**

