Elektronische Bauelemente

SM220BM-C~SM2200BM-C

Voltage 20~200V

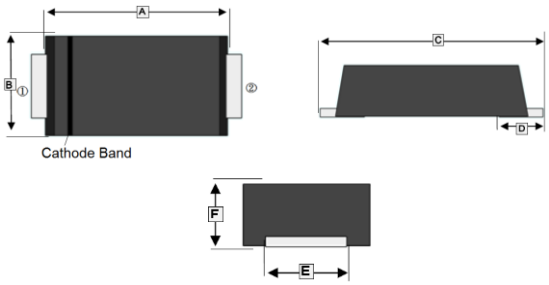
2.0 Amp Surface Mount Schottky Barrier Rectifiers

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

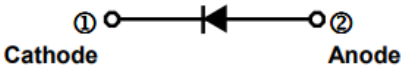
FEATURES

- Surface mounted applications
- Low power loss
- High efficiency

SMBM



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



MARKING

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

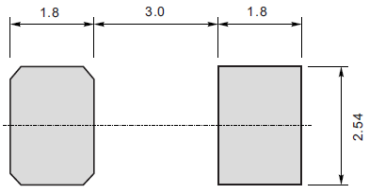
PACKAGE INFORMATION

Package	MPQ	Leader Size
SMBM	5K	13 inch

ORDER INFORMATION

Part Number	Type
SM220BM-C~SM2200BM-C	Lead (Pb)-free and Halogen-free

Mounting Pad Layout



*Dimensions in millimeters

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
			SM220 BM-C	SM240 BM-C	SM260 BM-C	SM2100 BM-C	SM2150 BM-C	SM2200 BM-C	
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°C	I_R	0.5			0.3			mA
	T_A=100°C		5			3			
Typical Junction Capacitance [1]		C_J	250			110			pF
Typical Thermal Resistance from Junction-Ambient [2]		$R_{\theta JA}$	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.

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CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

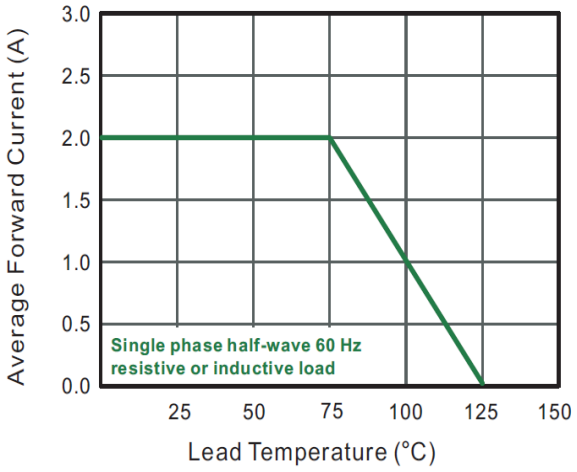

Fig.2 Typical Reverse Characteristics

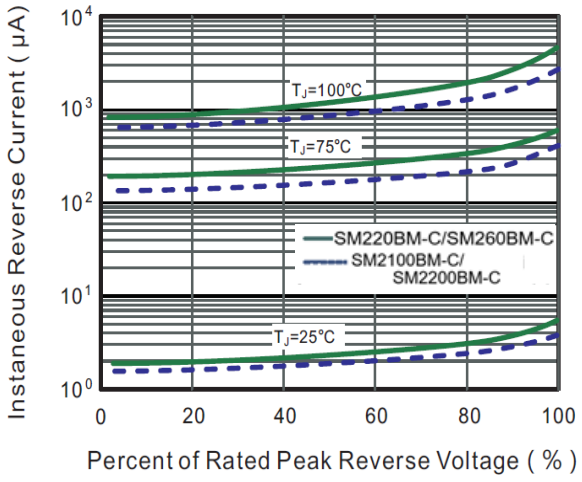

Fig.3 Typical Forward Characteristic

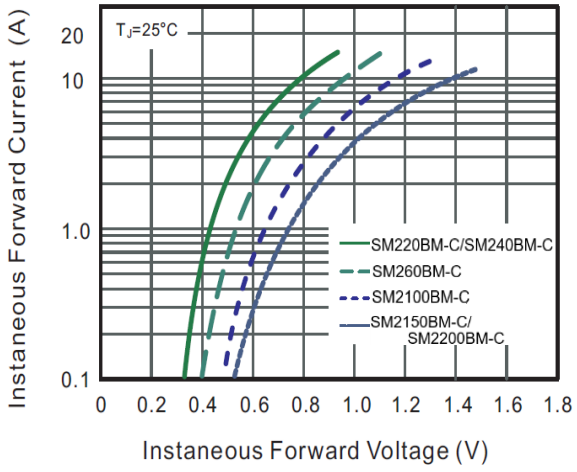

Fig.4 Typical Junction Capacitance

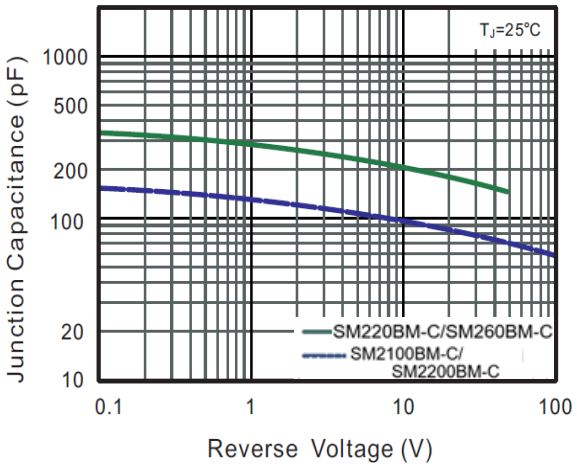

Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

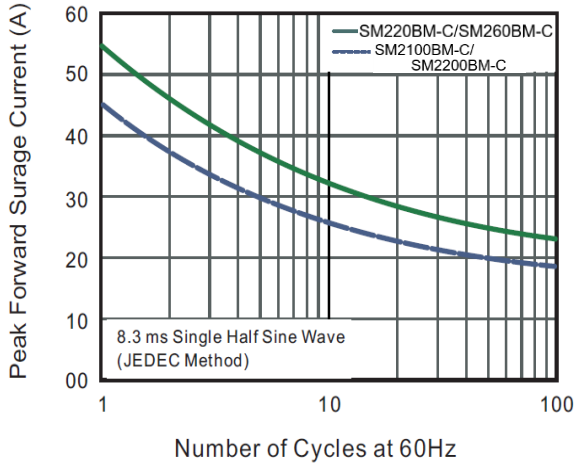

Fig.6- Typical Transient Thermal Impedance