Elektronische Bauelemente

SM220BM~SM2200BM

20 ~ 200V, 2A

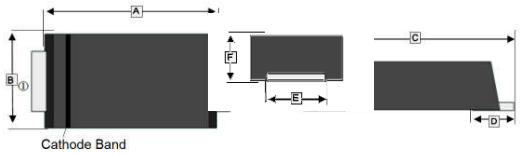
Surface Mount Schottky Barrier Rectifiers

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	4.4	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℃ ambient temperature unless otherwise s pecified. 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℃	I_R	0.5			0.3			mA
	T_A=100℃		5			3			
Typical Junction Capacitance [1]		C_J	250			110			pF
Typical Thermal Resistance from Junction to Ambient [2]		$R_{\theta JA}$	65						℃/W
Junction and Storage Temperature		T_J, T_{STG}	125, -55 ~ 150						℃

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

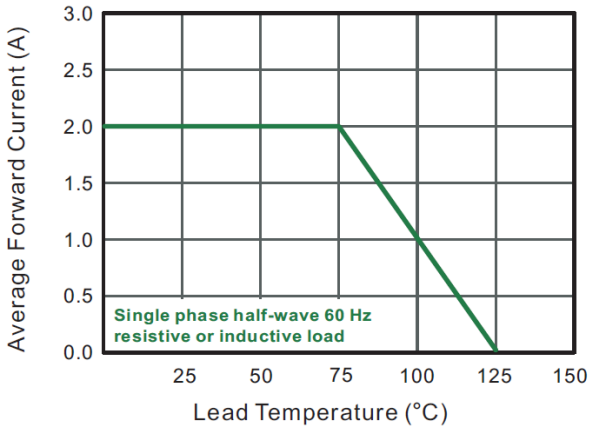


Fig.2 Typical Reverse Characteristics

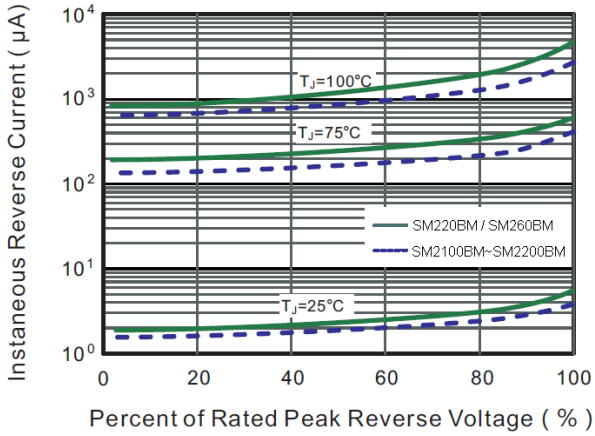


Fig.3 Typical Forward Characteristic

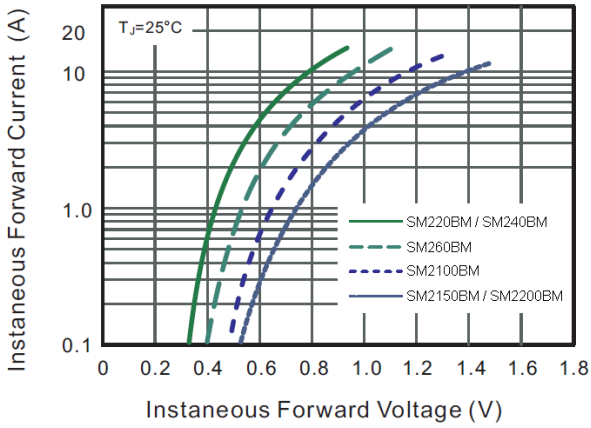


Fig.4 Typical Junction Capacitance

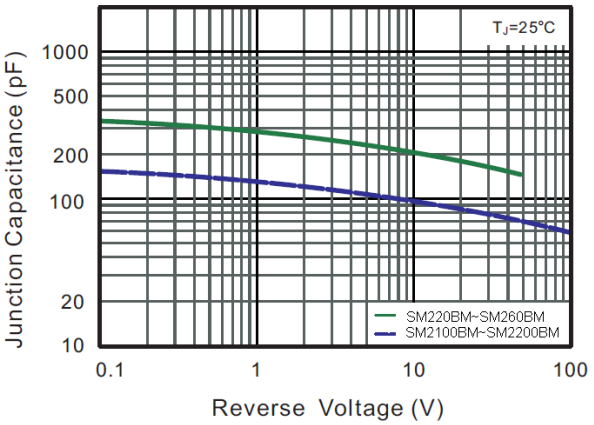


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

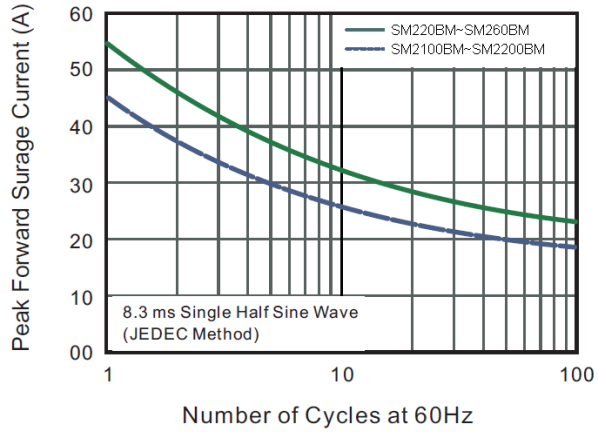


Fig.6- Typical Transient Thermal Impedance

