

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

FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Low Reverse Current

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Metallurgically bonded construction
- Molarity: Color Band Denotes Cathode End
- Mounting Position: Any

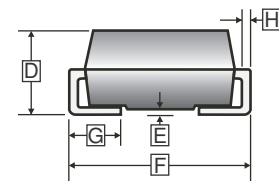
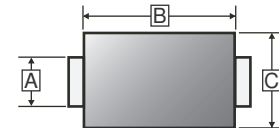
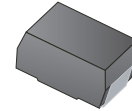
PACKAGE INFORMATION

Package	MPQ	Leader Size
SMB	3K	13 inch

ORDER INFORMATION

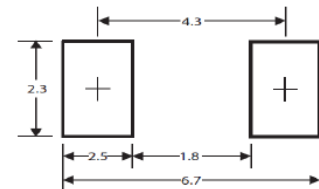
Part Number	Type
SM320B-C~SM3100B-C	Lead (Pb)-free and Halogen-free

SMB



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.85	2.20	E	-	0.203
B	4.00	4.75	F	5.08	5.59
C	3.25	3.94	G	0.75	1.52
D	1.99	2.61	H	0.15	0.31

Mounting Pad Layout



*Dimensions in millimeters

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	Part Number				Unit
		SM320B-C	SM340B-C	SM360B-C	SM3100B-C	
Peak Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	100	V
Working Peak Reverse Voltage	V_{RSM}	20	40	60	100	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	100	V
Maximum Average Forward Current	I_F	3.0				A
Peak Forward Surge Current @8.3ms Half Sine-Wave superimposed on rated load (JEDEC method)	I_{FSM}	80				
Maximum Instantaneous Forward Voltage @ $I_F=3A$	V_F	0.45	0.52	0.65	0.83	V
Maximum DC Reverse Current @Rated DC Blocking Voltage	$T_A=25^\circ C$	0.2				mA
	$T_A=100^\circ C$	10				
Typical Junction Capacitance ¹	C_J	300				pF
Thermal Resistance Junction-Lead	$R_{\theta JL}$	22				°C/W
Operating Temperature Range	T_J	-55~125		-55~150		°C
Storage Temperature Range	T_{STG}	-65~175				°C

Note:

1. Measured at 1MHz and applied reverse voltage of 4V D.C.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

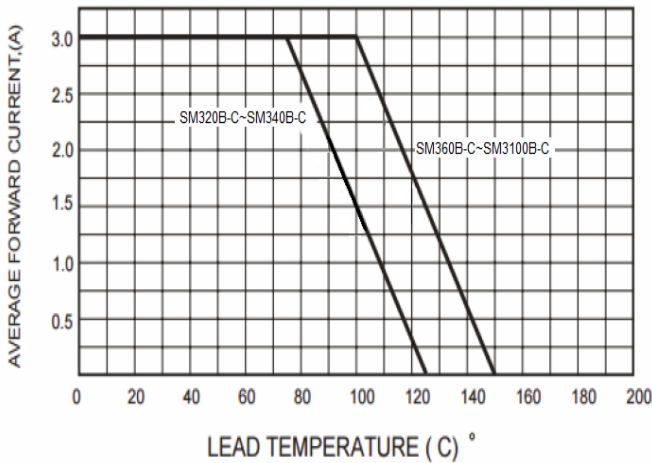


FIG.2-TYPICAL FORWARD CHARACTERISTICS

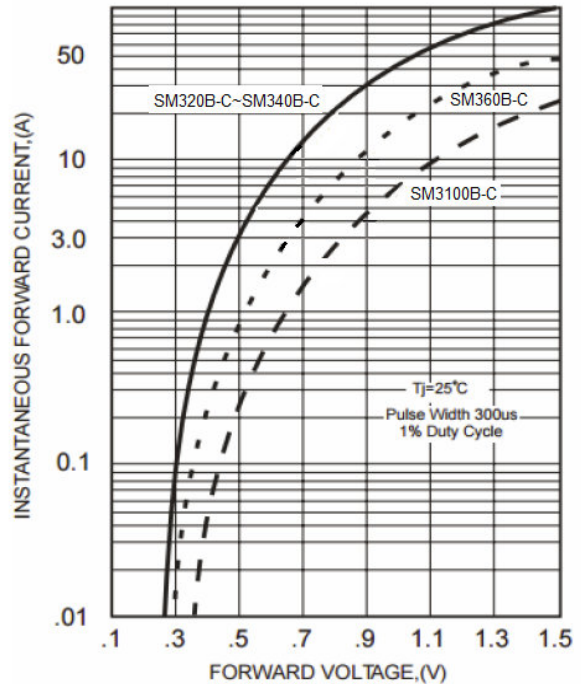


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

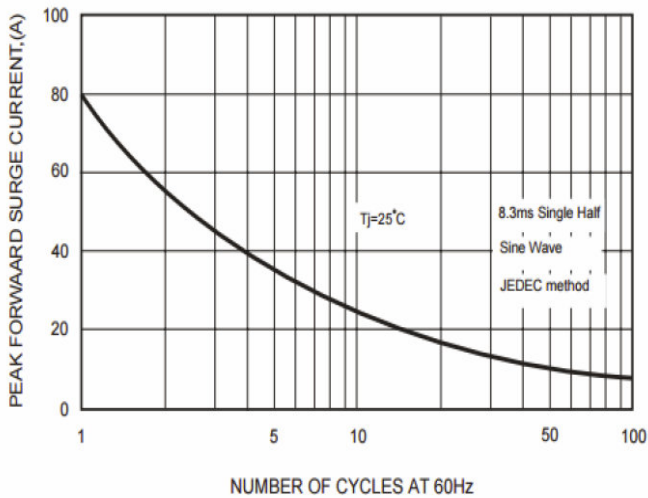


FIG.4-TYPICAL JUNCTION CAPACITANCE

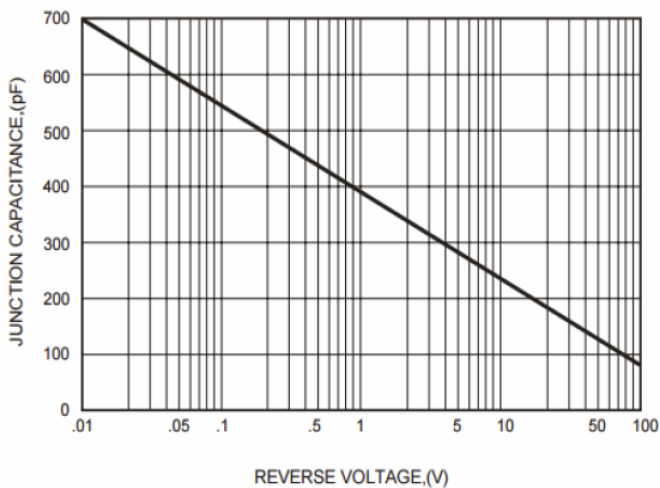


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

