

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

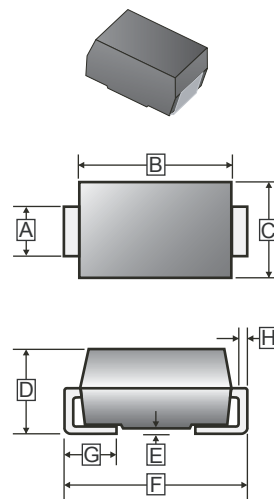
FEATURES

- RoHS Compliant Product
- 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
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any
- Weight: 0.102 grams

SMB



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.91	2.20	E	-	0.203
B	4.00	4.70	F	5.08	5.59
C	3.25	3.94	G	0.75	1.52
D	2.11	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	Part Number				Unit
			SM320B	SM340B	SM360B	SM3100B	
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 @ 8.3 ms 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 At Rated DC Blocking Voltage	T _A =25°C	I _R	0.2				mA
	T _A =100°C		10				
Typical Junction Capacitance ¹		C _J	300				pF
Typical Thermal Resistance ²		R _{θJL}	22				°C / W
Operating Temperature Range		T _J	-50 ~ +150				°C
Storage Temperature Range		T _{STG}	-65 ~ +175				°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.
2. Thermal Resistance Junction to Lead.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

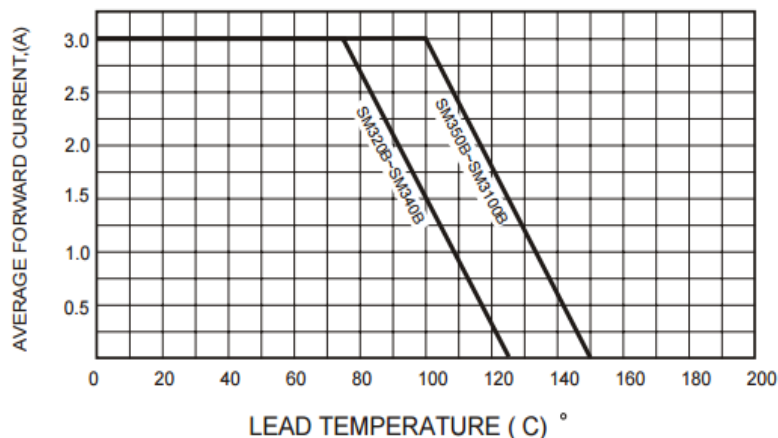


FIG.2-TYPICAL FORWARD CHARACTERISTICS

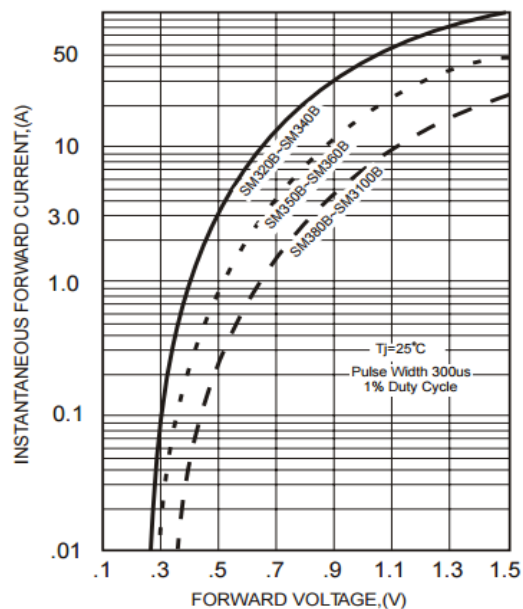


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

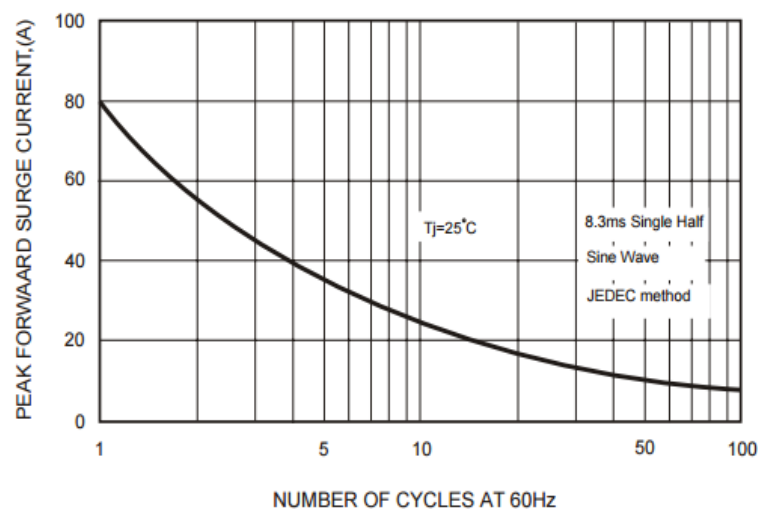


FIG.4-TYPICAL JUNCTION CAPACITANCE

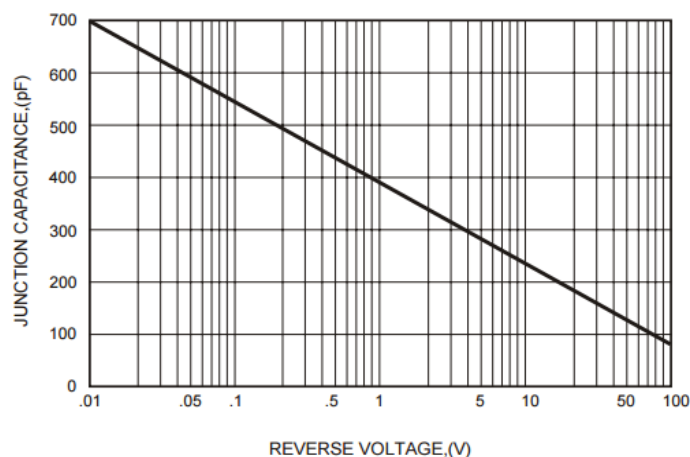


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

