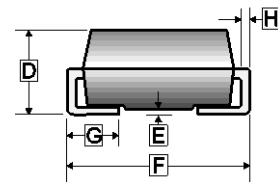
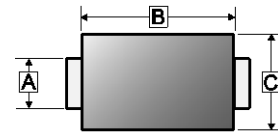
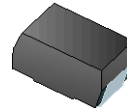


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250°C for 10 Seconds at Terminals
- Low Reverse Current

### SMB



## MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Axial Leads, Solderable per MIL-STD-202 method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SMB	3K	13 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.85	2.20	E	0.1	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	0.305

## 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	Ratings	Unit
Peak Repetitive Peak reverse voltage	$V_{RRM}$	100	V
Average Forward Current @60Hz Half-sine wave, Resistance load, TL(Fig. 1)	$I_{F(AV)}$	5	A
Peak Forward Current @60Hz Half-sine wave, 1 cycle, $T_A=25^\circ\text{C}$	$I_{FSM}$	100	A
Maximum Instantaneous Forward Voltage	$I_{FM}=5.0\text{ A}$	$V_F$	V
Peak Reverse Current	$I_{RRM}$	$T_A=25^\circ\text{C}, V_{RM}=V_{RRM}$	1
		$T_A=100^\circ\text{C}, V_{RM}=V_{RRM}$	50
Typical Thermal Resistance between Junction and Ambient <sup>1</sup>	$R_{\theta JA}$	60	°C/W
Typical Thermal Resistance between Junction and Lead <sup>1</sup>	$R_{\theta JL}$	20	°C/W
Operating Temperature Range and Storage temperature	$T_J, T_{STG}$	-55~150	°C

Notes:

1. Thermal resistance from junction to ambient and from junction to lead mounted on P. C. B. with 0.6" × 0.6"(16mm × 16mm) copper pad areas.

**RATINGS AND CHARACTERISTIC CURVES**

FIG.1: FORWARD CURRENT DERATING CURVE

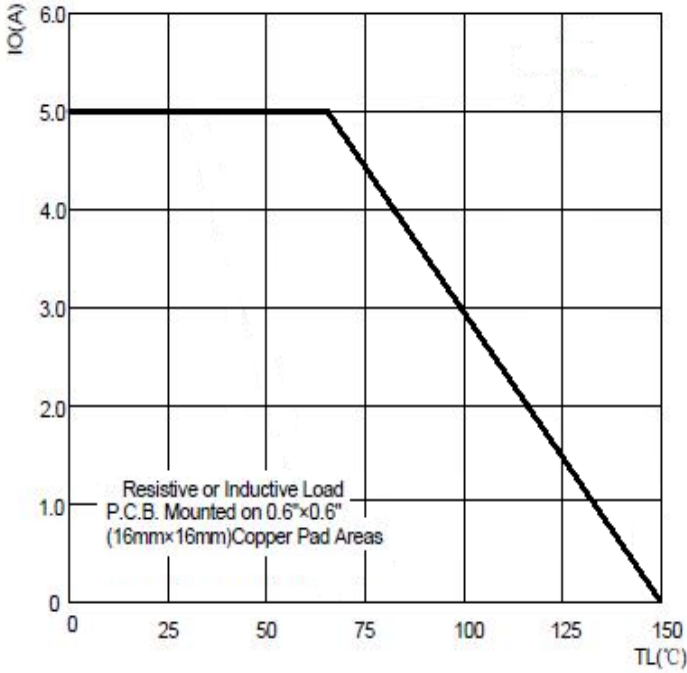


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

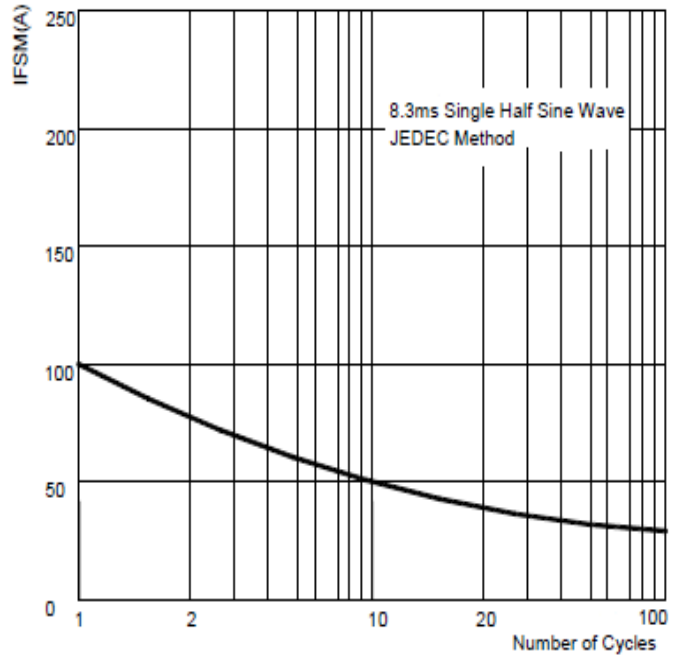


FIG.3: TYPICAL FORWARD CHARACTERISTICS

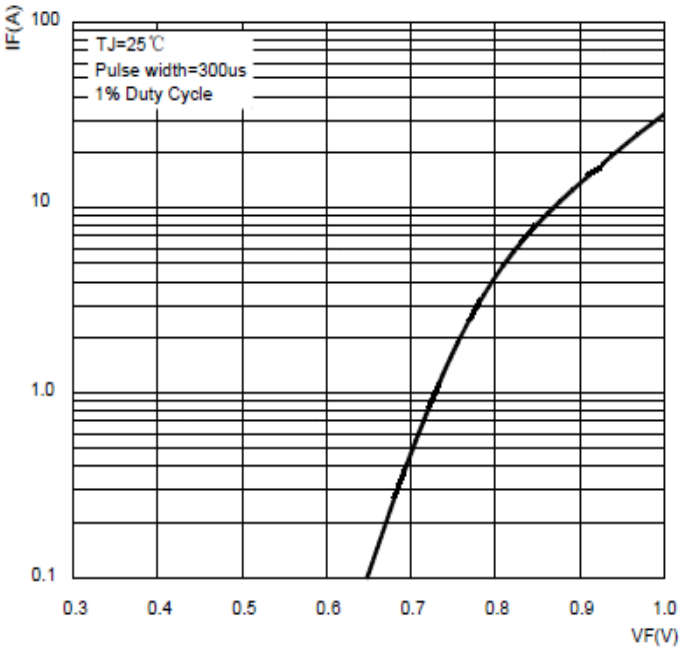


FIG.4: TYPICAL REVERSE CHARACTERISTICS

