

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

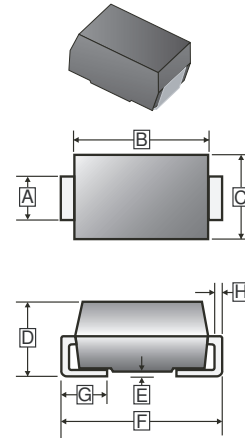
## FEATURES

- High current capability
- High surge current capability
- Low reverse current

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SMB	3K	13 inch

### SMB



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	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	60	V
Maximum RMS Voltage	$V_{RMS}$	42	V
Maximum DC Blocking Voltage	$V_R$	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	5	A
Peak Forward Surge Current@ 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	100	A
Instantaneous Forward Voltage	$V_F$	$I_F=2A, T_A=25^\circ C, Typ.$	0.36
		$I_F=5A, T_A=25^\circ C, Max.$	0.5
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	$T_A=25^\circ C$	0.5
		$T_A=100^\circ C$	15
Typical Total Capacitance <sup>1</sup>	$C_J$	330	pF
Typical Thermal Resistance from Junction to Case	$R_{\theta JC}$	30	°C / W
Operating Junction and Storage temperature	$T_J, T_{STG}$	150, -55~150	°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.

**CHARACTERISTIC CURVES**

FIG. 1-Typical Forward Current Derating Curve

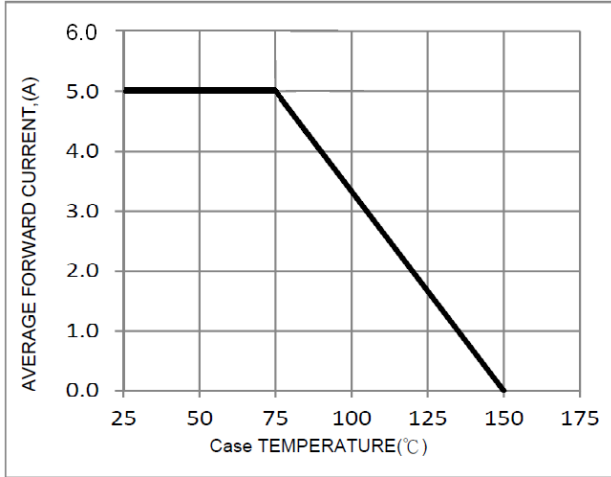


FIG. 2-Typical Forward Characteristics

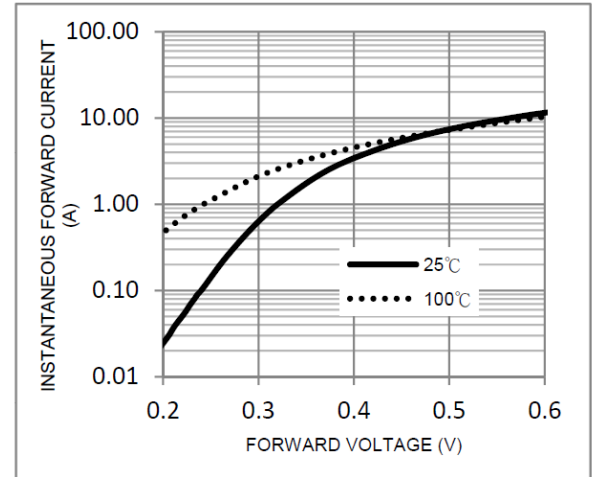


FIG. 3-Maximum Non-Repetitive Forward Surge Current

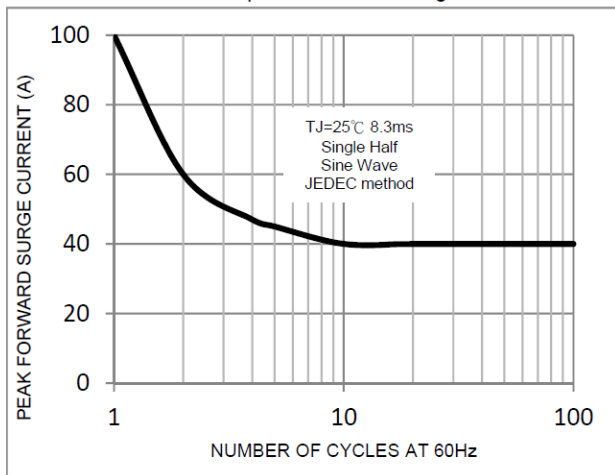


FIG. 4-Typical Reverse Characteristics

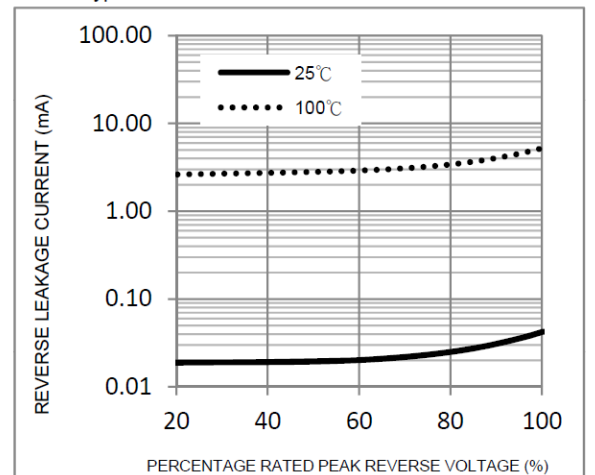


FIG. 5-Typical Junction Capacitance

