

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

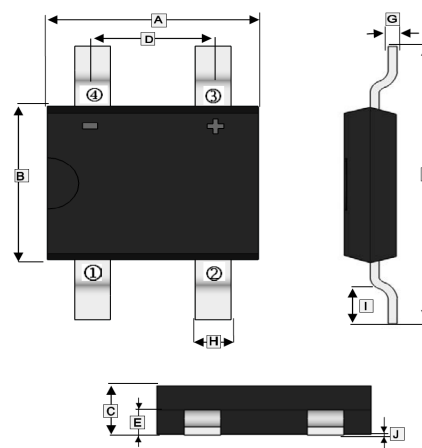
FEATURES

- Ultra Low leakage current $I_R < 2\mu A$, $T_A = 125^\circ C$
- No solder used, Real fully in line with lead free
- Package Thickness is 1.2mm
- High ESD >12KV (HBM MODEL)
- Plastic material has U/L flammability classification 94V-0
- High temperature soldering guaranteed:
260°C/10s (Reflow)
350°C/3s (Manual welding)

MECHANICAL DATA

- Small signal rectifier devices.

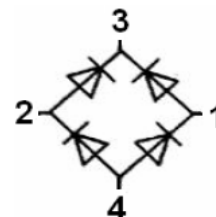
TMB



PACKAGE INFORMATION

Package	MPQ	Leader Size
TMB	5K	13 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.5	4.7	F	6.6	7.0
B	3.6	3.8	G	0.2 TYP.	
C	1.2 TYP.		H	0.6	0.8
D	2.6	2.8	I	0.9	1.1
E	0.45	0.65	J	0.05	0.15



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 Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current @ $T_A = 25^\circ C$	$I_{F(AV)}$	0.8	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	14	A
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.5	μA
		2	
Maximum Instantaneous Forward Voltage @ $I_F = 0.4A$	V_F	1	V
Typical thermal resistance	$R_{\theta JA}$	200	$^\circ C/W$
Operating & Storage Temperature Range	T_J, T_{STG}	-55~150	$^\circ C$

CHARACTERISTIC CURVES

FIG.1 TYPICAL FORWARD CHARACTERISTICS

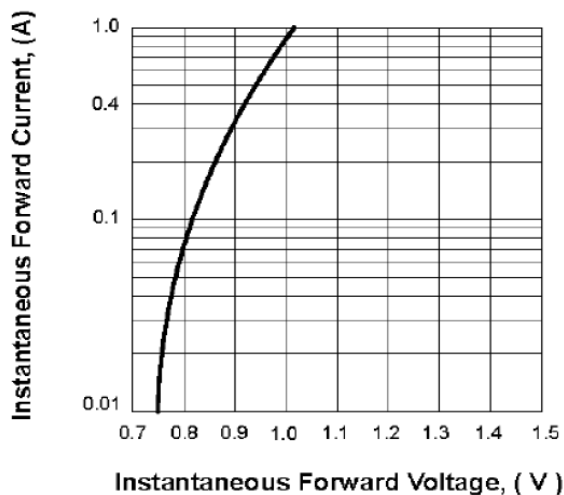


FIG.2 FORWARD DERATING CURVE

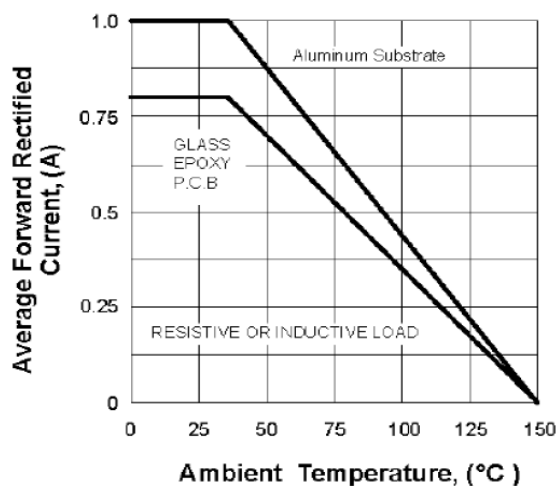


FIG.3 TYPICAL REVERSE CHARACTERISTICS

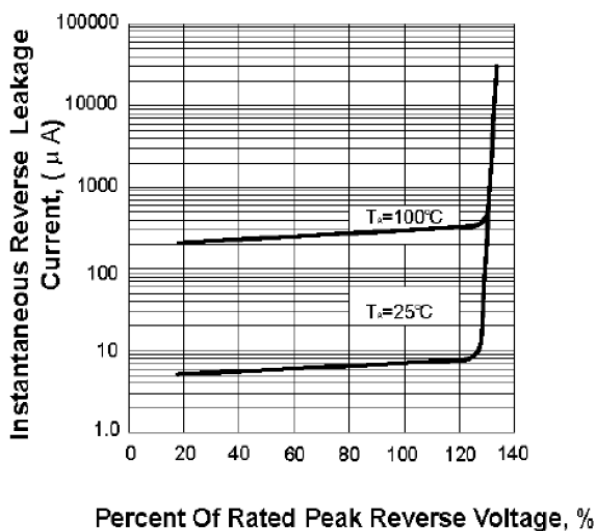


FIG.4 PEAK FORWARD SURGE CURRENT

