

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

FEATURES

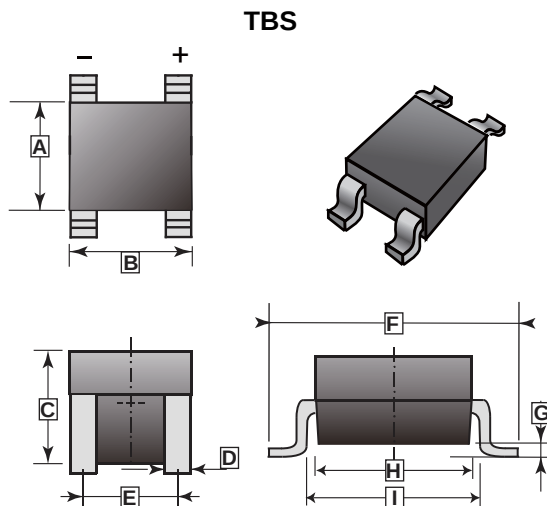
- Glass passivated chip junction
- High surge overload rating : 30A peak
- Save space on printed circuit boards
- High temperature soldering guaranteed :
260°C / 10 seconds at 5 lbs. (2.3 kg) tension

MECHANICAL DATA

- Case: Molded plastic body over passivated junctions
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols marked on body
Dimensions in inches and (millimeters)
- Mounting position: Any

PACKAGE INFORMATION

Package	MPQ	Leader Size
TBS	4K	13 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.25	4.55	F	6.30	6.70
B	4.85	5.15	G	0.05	0.15
C	1.15	1.45	H	4.25	4.55
D	0.60	0.70	I	0.50	0.70
E	3.90	4.10			

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, derate current by 20%.)

Parameter		Symbol	Part Number					Unit
			TB2S	TB4S	TB6S	TB8S	TB10S	
Maximum Recurrent Reverse Voltage		V_{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	200	400	600	800	1000	V
Maximum Instantaneous Forward Voltage @ $I_{FM}=0.4A$		V_F	0.95					V
Maximum Average Forward Rectified Current @ $T_L=100^{\circ}C$		$I_{F(AV)}$	0.8^1					A
			1.0^2					
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	30					A
Typical thermal resistance junction to ambient	On aluminum substrate	$R_{\theta JA}$	62.5					$^{\circ}C / W$
	On glass-epoxy substrate		80					
Typical thermal resistance junction to lead		$R_{\theta JL}$	25					
Maximum DC Reverse Current at Rated DC Blocking Voltage@ $T_A=25^{\circ}C$		I_R	10					A
Operating & Storage Temperature Range		T_J, T_{STG}	-55~150					$^{\circ}C$

Notes:

1. On glass epoxy P.C.B.
2. On aluminum substrate.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 TYPICAL FORWARD CHARACTERISTICS

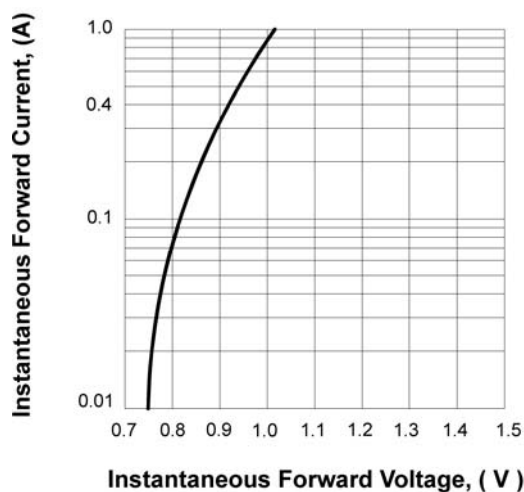


FIG.2 FORWARD DERATING CURVE

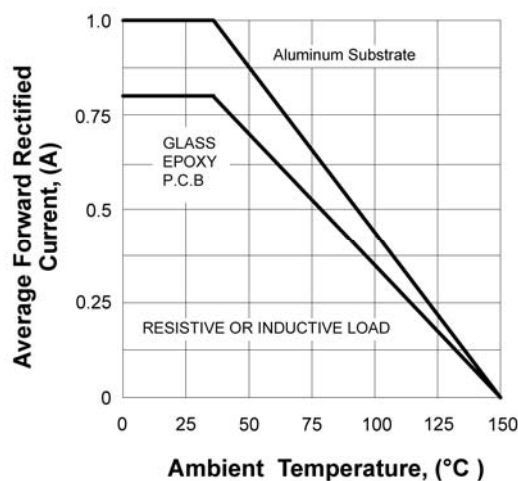


FIG.3 TYPICAL REVERSE CHARACTERISTICS

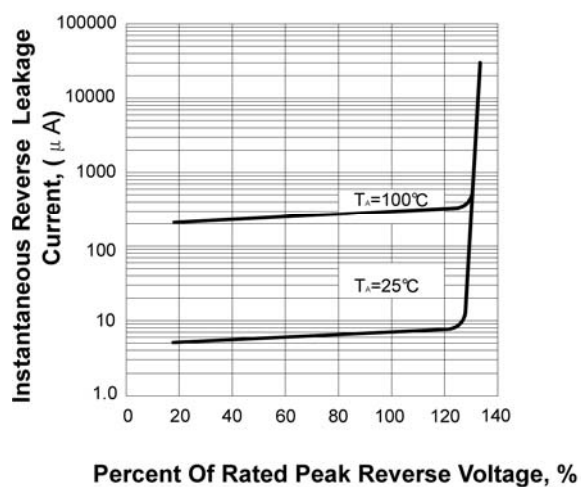


FIG.4 PEAK FORWARD SURGE CURRENT

