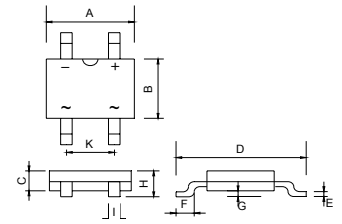


FEATURES

- Glass passivated chip junction
- High surge overload rating: 30A peak
- Saves space on printed circuit boards
- This series is UL recognized under Component Index, file number E239431
- Plastic material has U/L flammability classification 94V-O
- High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs. (2.3kg) tension



MECHANICAL DATA

- Case: Molded plastic body over passivated junctions
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026

TBS		
Dim	Min	Max
A	4.80	5.20
B	4.30	4.60
C	1.20	1.50
D	6.15	6.65
E	0.15	0.35
F	0.30	0.90
G	0.20MAX	
H	1.35	1.65
I	0.60	0.80
K	3.80	4.20
All Dimensions in mm		

Maximum Ratings (@TA = 25°C unless otherwise specified)

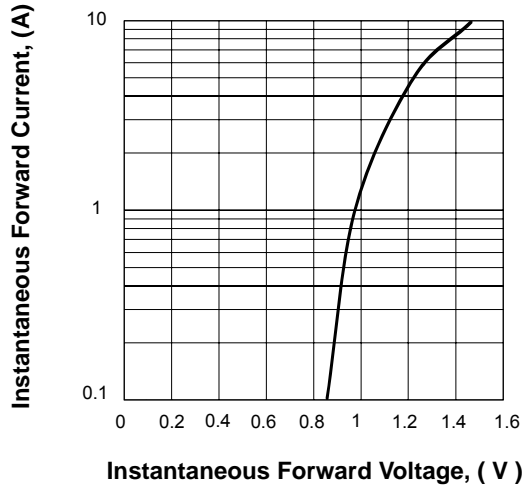
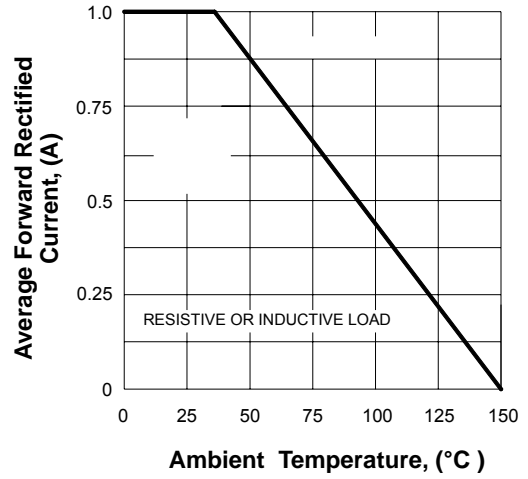
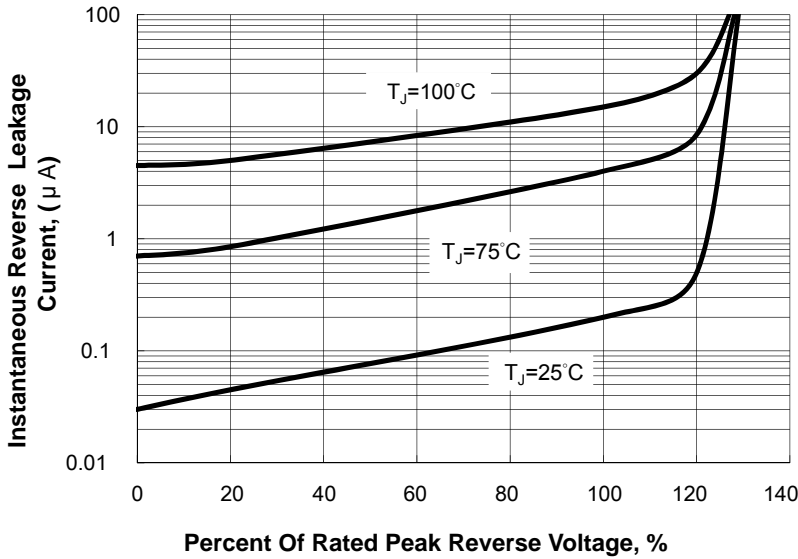
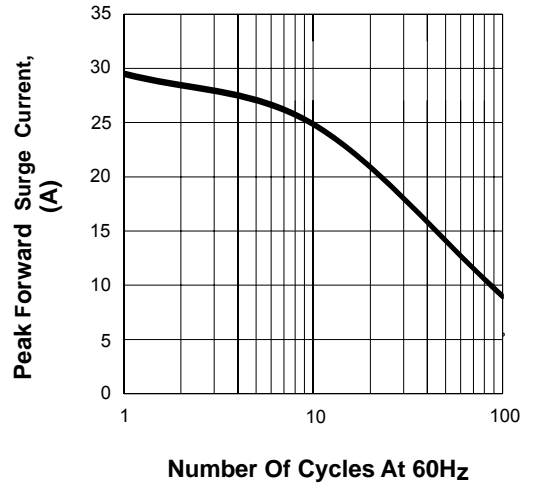
Characteristic	Symbol	TB2S	TB4S	TB6S	TB8S	TB10S	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	140	280	420	560	700	V
DC Blocking Voltage	V_{DC}	200	400	600	800	1000	V
Maximum average forward Output current $T_L=100^\circ\text{C}$	$I_{F(AV)}$	0.8 ¹⁾ 1.0 ²⁾					A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	30					A
Current squared time $t < 8.3\text{ms}$, $T_a = 25^\circ\text{C}$	I^2t	3.74					A ² s

Thermal Characteristics

Characteristic	Symbol	TB2S	TB4S	TB6S	TB8S	TB10S	UNITS
Typical thermal resistance junction to lead	$R_{\theta JL}$	25					C/W
On aluminum substrate	$R_{\theta JA}$	80					
Operating junction temperature range	T_J	- 55 ---- + 150					C
Storage temperature range	T_{STG}	- 55 ---- + 150					C

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	TB2S	TB4S	TB6S	TB8S	TB10S	UNITS
Maximum instantaneous forward voltage at 0.4 A	V_F	0.95					V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage	I_R	10					μA


FIG.1 TYPICAL FORWARD CHARACTERISTICS

FIG.2 FORWARD DERATING CURVE

FIG.3 TYPICAL REVERSE CHARACTERISTICS

FIG.4 PEAK FORWARD SURGE CURRENT


Device	Package	Shipping
TB2S-TB10S	TBS	4000/Tape&Reel