

TB2S-TB10S

Silicon Bridge Rectifiers

Reverse Voltage: 200 - 1000V

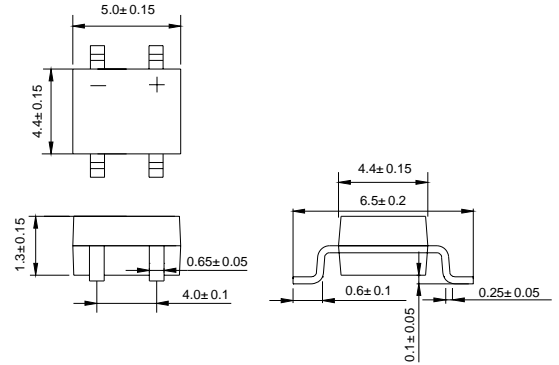
Forward Current: 0.8,1.0A



TBS

Features

- ✧ This series is UL recognized under Component Index, file number E239431
- ✧ Glass passivated chip junction
- ✧ Plastic material has U/L flammability classification 94v-0
- ✧ 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



Dimensions in millimeters

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
- ✧ **Weight:**

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate by 20%.

Parameter	Symbol	TB2S	TB4S	TB6S	TB8S	TB10S	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RWS}	140	280	420	560	700	V
Maximum 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
Maximum instantaneous forward voltage at 0.4A	V_F	0.95					V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage	I_R	10					μA
Typical thermal resistance junction to lead On aluminum substrate On glass-epoxy substrate	$R_{\theta JL}$ $R_{\theta JA}$	25 62.5 80					$^\circ\text{C/W}$
Operating junction temperature range	T_J	-55---+150					$^\circ\text{C}$
Storage temperature range	T_{STG}	-55---+150					$^\circ\text{C}$

NOTES: 1). On glass epoxy P.C.B.

2). On aluminum substrate

Ratings AND Characteristic Curves

FIG.1 TYPICAL FORWARD CHARACTERISTICS

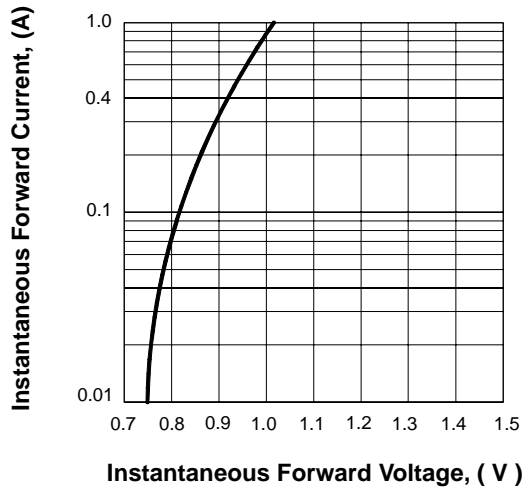


FIG.2 FORWARD DERATING CURVE

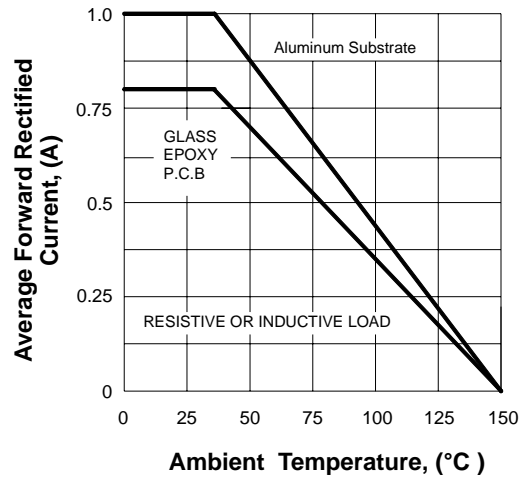


FIG.3 TYPICAL REVERSE CHARACTERISTICS

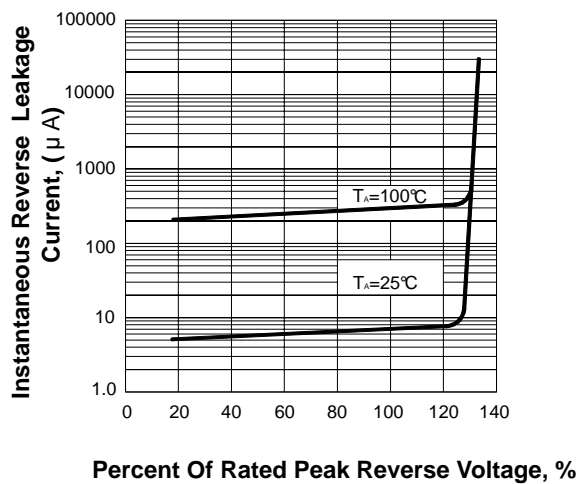


FIG.4 PEAK FORWARD SURGE CURRENT

