

# TB2S-TB10S

Silicon Bridge Rectifiers

Reverse Voltage: 200 - 1000V

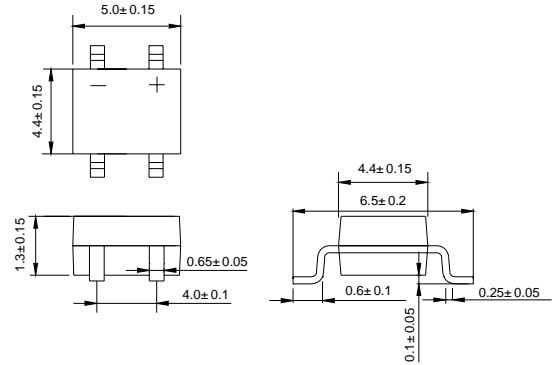
Forward Current: 0.8,1.0A



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-O
- ◇ 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 <sup>1)</sup> 1.0 <sup>2)</sup>					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					$\mu\text{A}$
Typical thermal resistance junction to lead On aluminum substrate	$R_{\theta JL}$	25					$^\circ\text{C/W}$
On glass-epoxy substrate	$R_{\theta JA}$	62.5 80					
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

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### Ratings AND Characteristic Curves

FIG.1 TYPICAL FORWARD CHARACTERISTICS

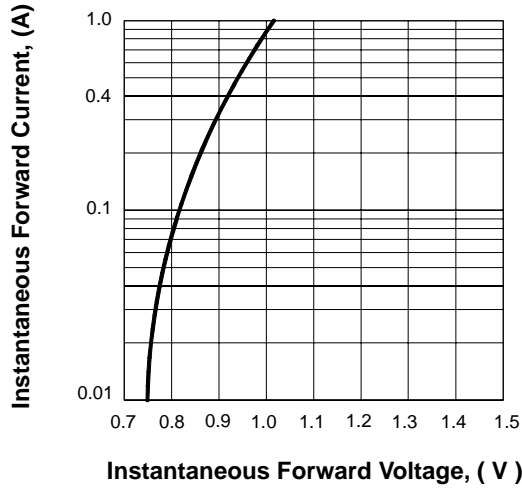


FIG.2 FORWARD DERATING CURVE

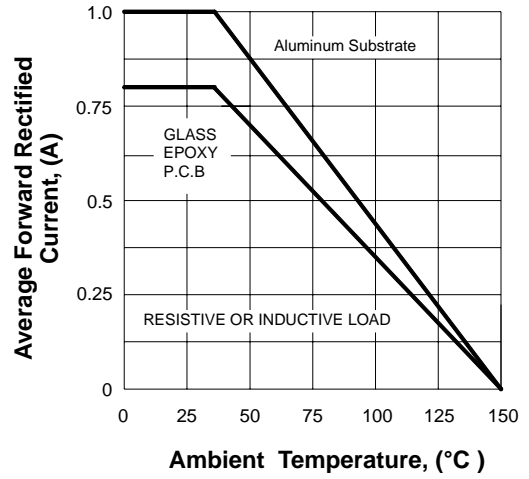


FIG.3 TYPICAL REVERSE CHARACTERISTICS

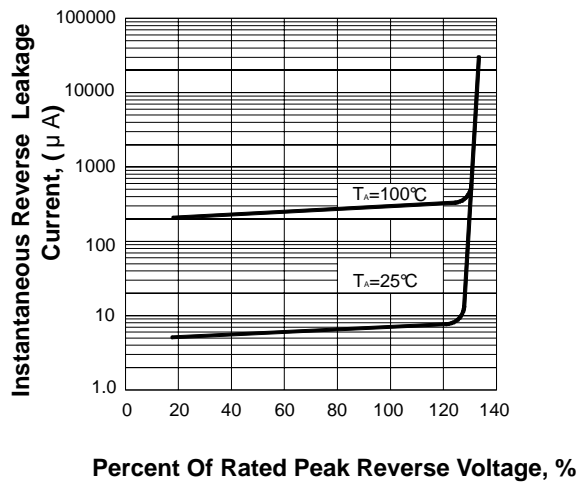
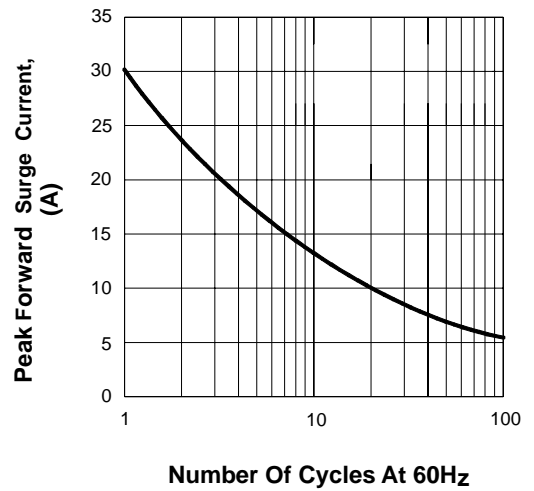


FIG.4 PEAK FORWARD SURGE CURRENT



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