

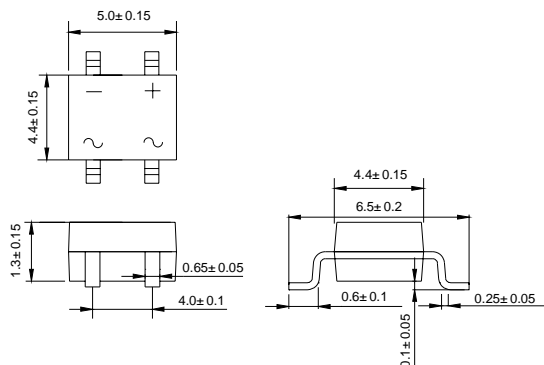


# TB2S THRU TB10S

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 200 to 1000 Volts Current - 0.8/1.0 Ampere

### TBS



Dimensions in inches and (millimeters)

### FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs., (2.3kg) tension
- ◆ Small size, simple installation
- ◆ High surge current capability
- ◆ Glass passivated chip junction

### MECHANICAL DATA

**Case:** Molded plastic body  
**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026  
**Polarity:** Polarity symbols marked on case  
**Mounting Position:** Any

### 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 current by 20%.

MDD Catalog Number	SYMBOLS	TB2S	TB4S	TB6S	TB8S	TB10S	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	200	400	600	800	1000	VOLTS
Maximum RMS voltage	$V_{RMS}$	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	$V_{DC}$	200	400	600	800	1000	VOLTS
Maximum average forward rectified current On glass-epoxy P.C.B.(Note1) On aluminum substrate(Note2)	$I_{F(AV)}$			0.8 1.0			Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$			30			Amps
Maximum instantaneous forward voltage drop per leg at 1A	$V_F$			0.95			Volts
Maximum DC reverse current at rated DC blocking voltage	$I_R$			5 100			$\mu A$ $\mu A$
Typical thermal resistance(NOTE 3)	$R_{\theta JL}$ $R_{\theta JA}$			25 80			$^{\circ}C/W$
Operating temperature range	$T_J$			-55 to +150			$^{\circ}C$
storage temperature range	$T_{STG}$			-55 to +150			$^{\circ}C$

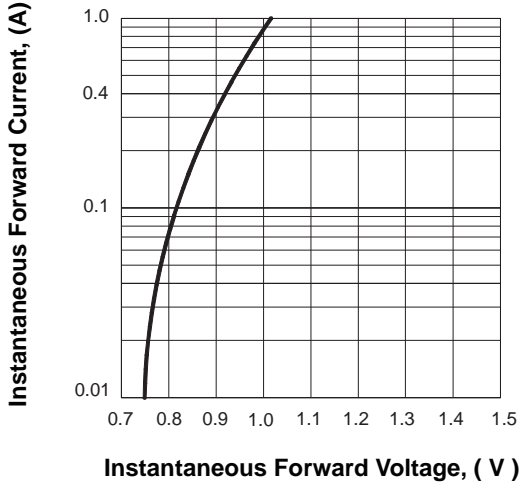
NOTES:1. On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads  
 2. On aluminum substrate P.C.B. with on area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad  
 3. Thermal resistance form junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm) copper pads.



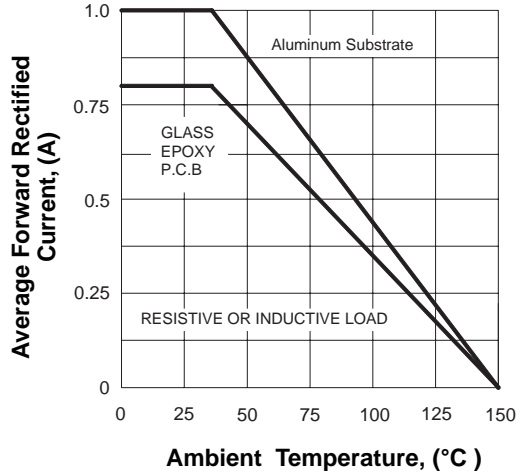
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# RATINGS AND CHARACTERISTIC CURVES TB2S THRU TB10S

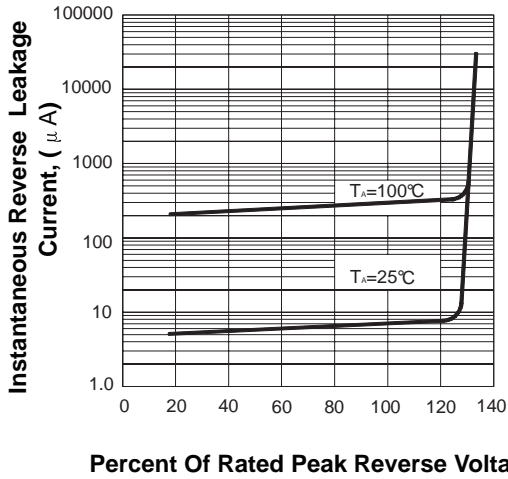
**FIG.1 TYPICAL FORWARD CHARACTERISTICS**



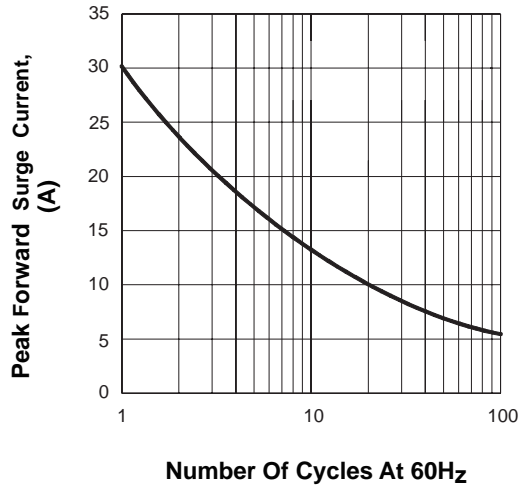
**FIG.2 FORWARD DERATING CURVE**



**FIG.3 TYPICAL REVERSE CHARACTERISTICS**



**FIG.4 PEAK FORWARD SURGE CURRENT**



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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