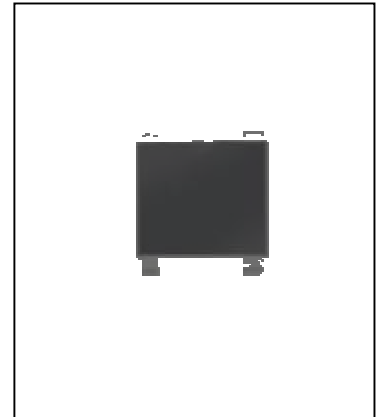


**SILICON BRIDGE RECTIFIERS****TB2S--TB10S****FEATURES**

- 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



Lead-free

**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: 0.0078 ounce, 0.22 gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

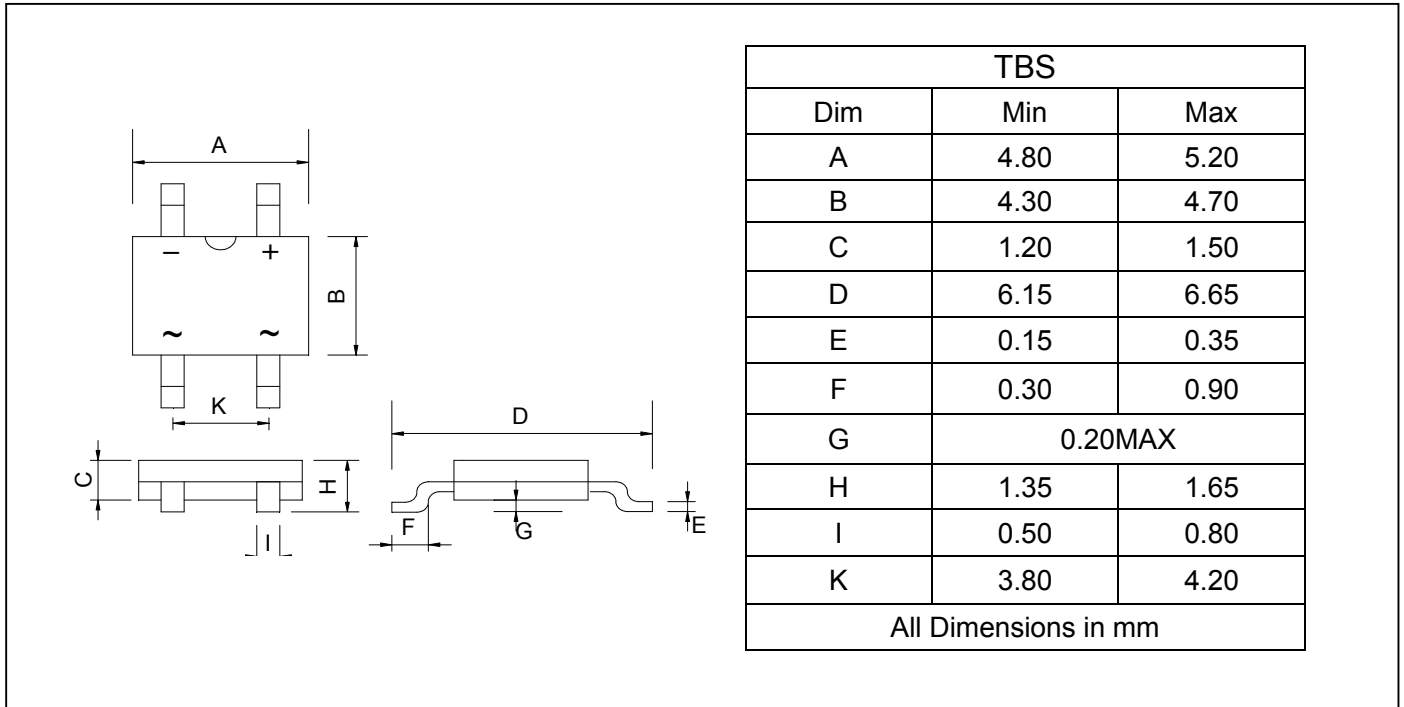
Ratings at 25°C ambient temperature unless otherwise specified.

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

		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 <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 0.4 A	$V_F$	1.0					V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage	$I_R$	10.0					$\mu\text{A}$
Typical thermal resistance junction to lead	$R_{\theta JA}$	25					$^\circ\text{C/W}$
On aluminum substrate	$R_{\theta JL}$	62.5					
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

**SILICON BRIDGE RECTIFIERS**
**TB2S--TB10S**
**PACKAGE OUTLINE DIMENSIONS**

**PACKAGE INFORMATION**

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



# SILICON BRIDGE RECTIFIERS

# TB2S--TB10S

FIG.1 TYPICAL FORWARD CHARACTERISTICS

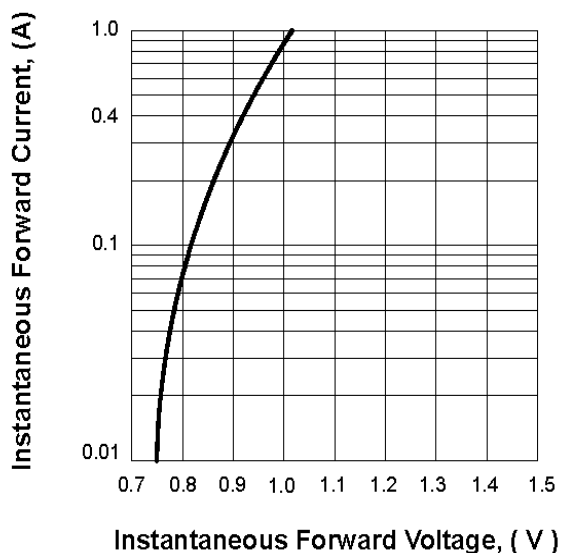


FIG.2 FORWARD DERATING CURVE

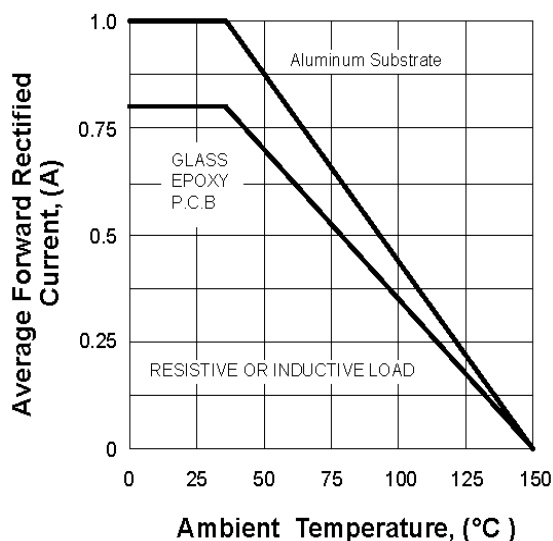


FIG.3 TYPICAL REVERSE CHARACTERISTICS

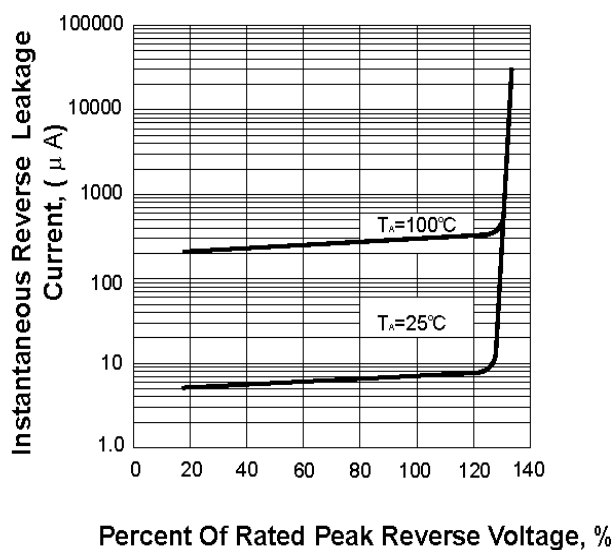


FIG.4 PEAK FORWARD SURGE CURRENT

