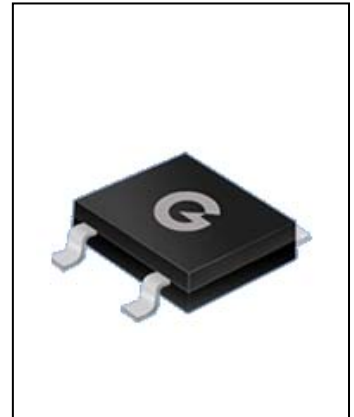


SILICON BRIDGE RECTIFIERS

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



MECHANICAL DATA

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

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 $t < 8.3\text{ms}$, $T_a = 25$	I^2t	3.7					A ² s

Thermal Characteristics

Characteristic	Symbol	TB2S	TB4S	TB6S	TB8S	TB10S	UNITS
Typical thermal resistance junction to lead On aluminum substrate	$R_{\theta JL}$ $R_{\theta JA}$	25 62.5					/W
Operating junction temperature range	T_J	- 55 ---- + 150					
Storage temperature range	T_{STG}	- 55 ---- + 150					

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

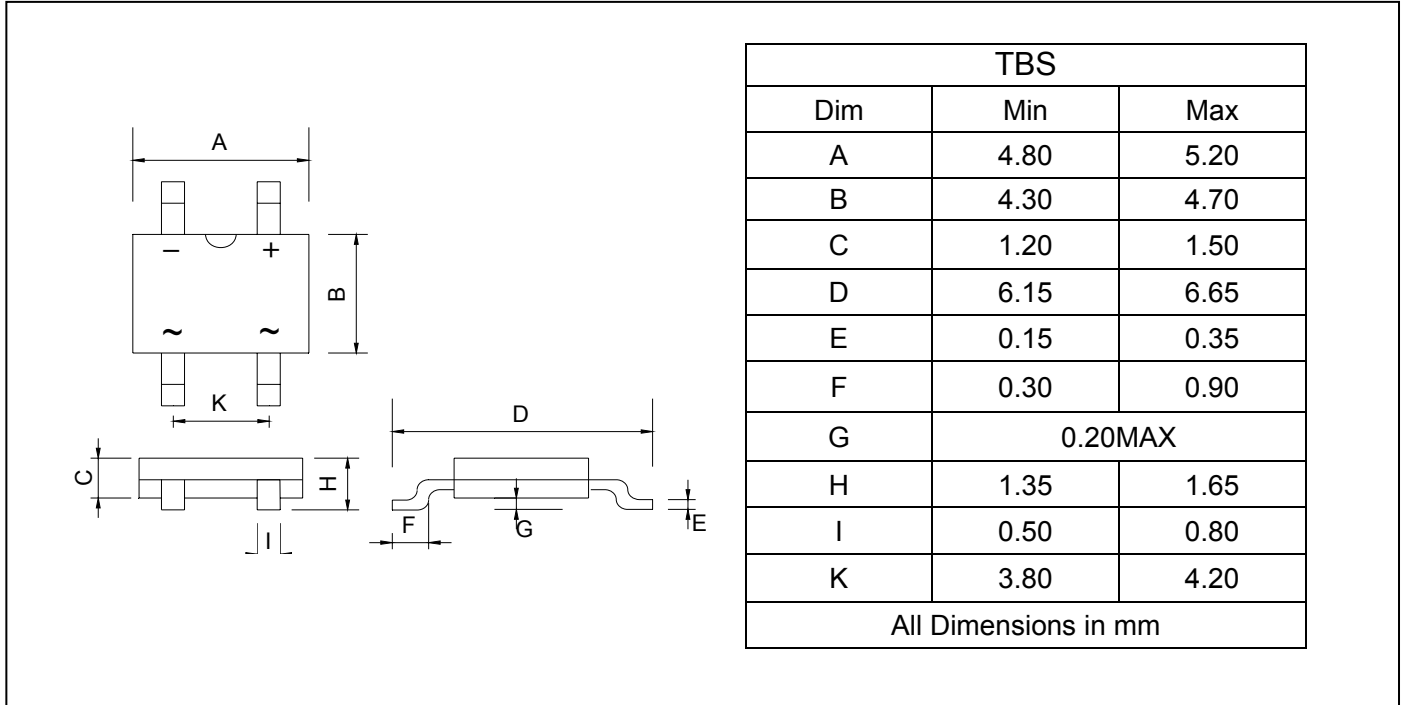
Characteristic	Symbol	TB2S	TB4S	TB6S	TB8S	TB10S	UNITS
Maximum instantaneous forward voltage at 0.4 A	V_F	1.0					V
Maximum reverse current @ $T_A=25$ at rated DC blocking voltage	I_R	10					μA



SILICON BRIDGE RECTIFIERS

TB2S--TB10S

PACKAGE OUTLINE DIMENSIONS



PACKAGE INFORMATION

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



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TB2S--TB10S

