



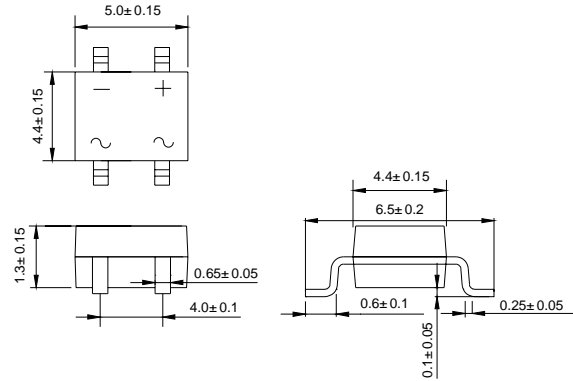
TB2S THRU TB10S

Voltage Range - 40 to 200 V olts Current - 1.0 Ampere

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Features

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



Mechanical Data

Case : JEDEC TBS Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.003 ounce, 0.098 grams

Dimensions in inches and (millimeters)

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 current derate by 20%.

Parameter	SYMBOLS	TB2S	TB4S	TB6S	TB8S	TB10S	UNITS	
		MDD TB2S	MDD TB4S	MDD TB6S	MDD TB8S	MDD TB10S		
Marking Code								
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V	
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	V	
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	V	
Maximum average forward rectified current	$I_{F(AV)}$	1.0						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30						A
Maximum instantaneous forward voltage drop per leg at 1A	V_F	0.95						V
Maximum DC reverse current at rated DC blocking voltage	I_R	5					100	mA
$T_A=25^\circ C$								
$T_A=100^\circ C$		80						°C/W
Typical thermal resistance	$R_{\theta JA}$	-55 to +150						pF °C
Operating temperature range	T_J	-55 to +150						°C
storage temperature range	T_{STG}	-55 to +150						°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 from junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm) copper pads.



TB2S THRU TB10S

Voltage Range - 40 to 200 V olts Current - 1.0 Ampere

Ratings And Characteristic Curves

FIG.1 TYPICAL FORWARD CHARACTERISTICS

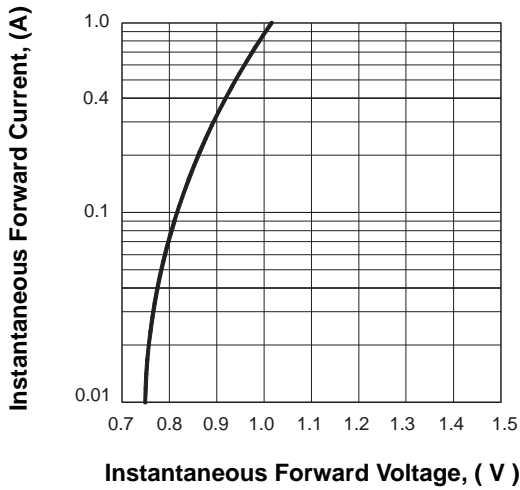


FIG.2 FORWARD DERATING CURVE

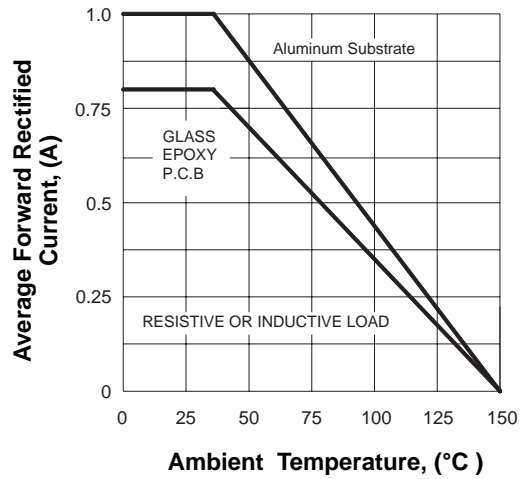


FIG.3 TYPICAL REVERSE CHARACTERISTICS

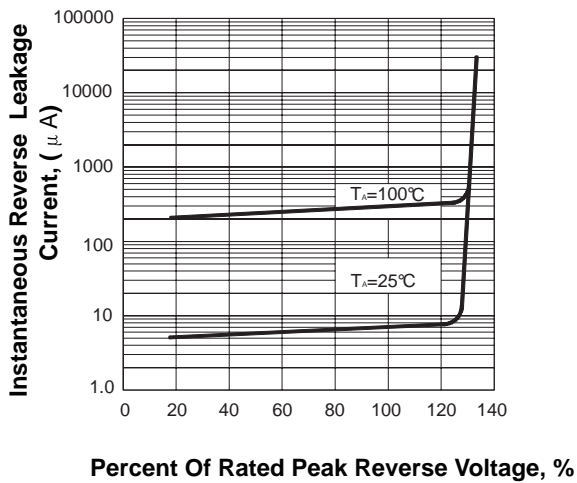
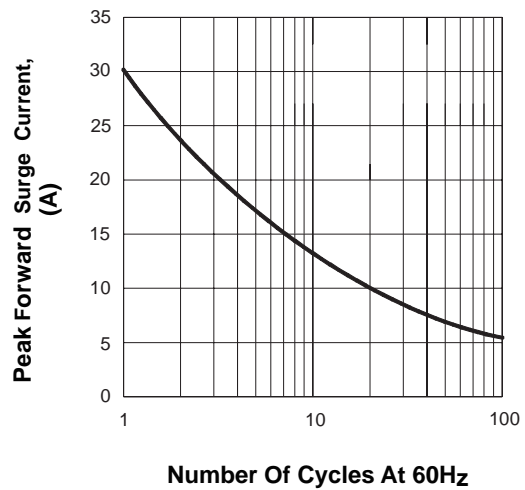


FIG.4 PEAK FORWARD SURGE CURRENT



The cruve graph is for reference only, can't be the basis for judgment