



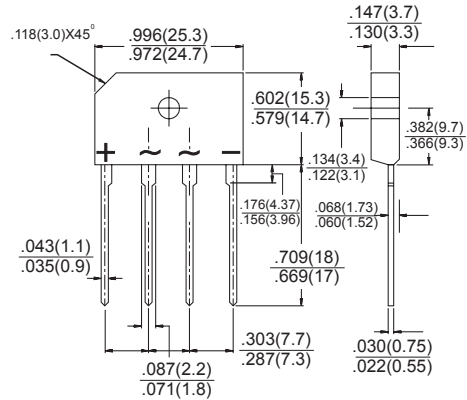
# TS4B01G - TS4B07G

Single Phase 4.0 AMPS.  
Glass Passivated Bridge Rectifiers

## TS4B

### Features

- ✧ UL Recognized File # E-96005
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction
- ✧ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ✧ Surge overload rating to 120 amperes peak
- ✧ High case dielectric strength of 2000V<sub>RMS</sub>
- ✧ High temperature soldering guaranteed: 260°C / 10 seconds at 5 lbs. ( 2.3 Kg ) tension



### Mechanical Data

Dimensions in inches and (millimeters)

- ✧ Case: Molded plastic
- ✧ Weight: 0.15 ounce, 4 grams
- ✧ Mounting torque: 5 in. lbs. Max.

### Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	TS4B 01G	TS4B 02G	TS4B 03G	TS4B 04G	TS4B 05G	TS4B 06G	TS4B 07G	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T <sub>C</sub> = 115 °C	I <sub>(AV)</sub>	4.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>	120							A
Rating for fusing (t<8.3ms)	I <sup>2</sup> t	60							A <sup>2</sup> sec
Maximum Instantaneous Forward Voltage @ 2.0A @ 4.0A	V <sub>F</sub>	1.0 1.1							V
Maximum DC Reverse Current @ T <sub>A</sub> =25 °C at Rated DC Blocking Voltage @ T <sub>A</sub> =125 °C	I <sub>R</sub>	5.0 500							uA uA
Typical Thermal Resistance (Note)	R <sub>θJC</sub>	5.5							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150							°C

Note: Thermal Resistance from Junction to Case with Device Mounted on 2" x 3" x 0.25" Al-Plate Heatsink.

## RATINGS AND CHARACTERISTIC CURVES (TS4B01G THRU TS4B07G)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE PER BRIDGE ELEMENT

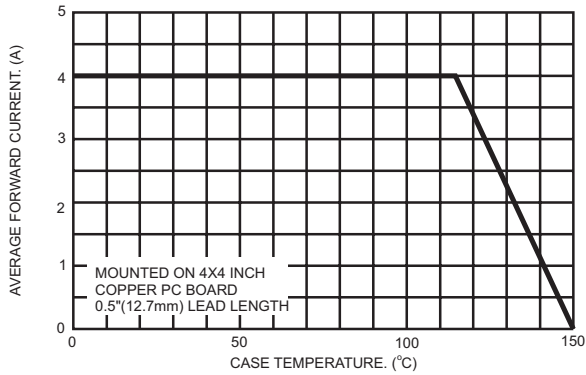


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

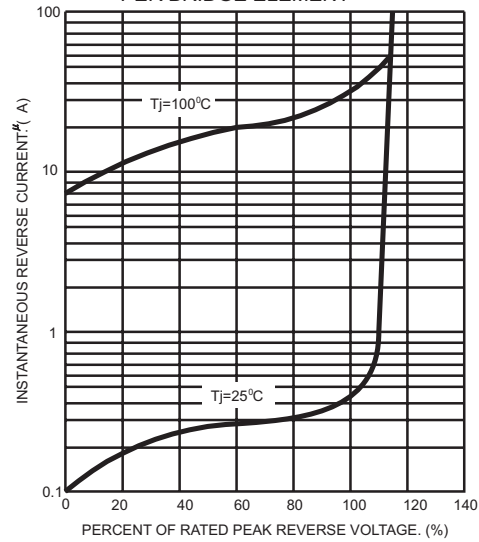


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

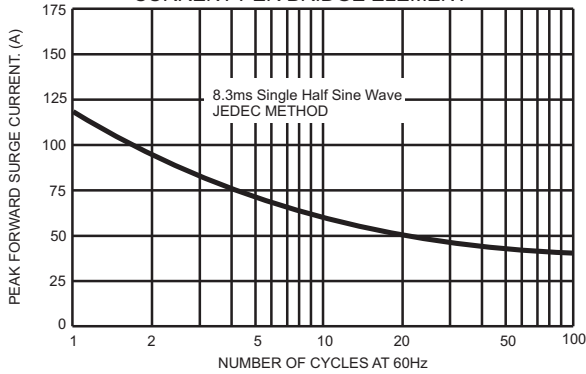


FIG.4- TYPICAL JUNCTION CAPACITANCE

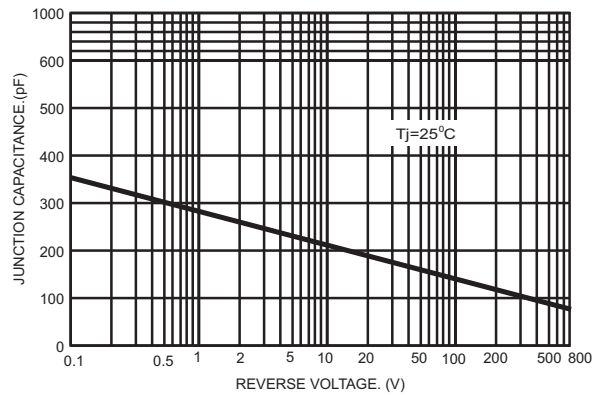


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

