



# TS6P01G - TS6P07G

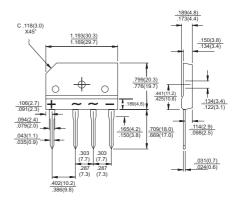
Single Phase 6.0 Amps. Glass Passivated Bridge Rectifiers





### **Features**

- $\diamond$ 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
- $\diamond$ Surge overload rating to 150 amperes peak
- $\diamondsuit$ High case dielectric strength of 2000V<sub>RMS</sub>
- Isolated voltage from case to lead over 2500 volts



### **Mechanical Data**

 $\diamondsuit$ Case: Molded plastic

Terminals: Leads solderable per MIL-STD-750, Method 2026

 $\diamond$ Weight: 0.3 ounce, 8 grams

Mounting torque: 8.17 in. lbs. max.

Dimensions in inches and (millimeters)

## **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

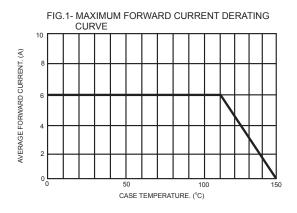
For capacitive load, derate current by 20%

Type Number	Symbol	TS6P 01G	TS6P 02G	TS6P 03G	TS6P 04G	TS6P 05G	TS6P 06G	TS6P 07G	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 2	I <sub>(AV)</sub>	6.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	150							А
Maximum Instantaneous Forward Voltage @ 3.0A @ 6.0A	V <sub>F</sub>	1.0 1.1							٧
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>OJC</sub>	1.8							°C/W
Operating Temperature Range	TJ	-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 75mm x 75mm x 1.6mm Cu Plate Heatsink.



#### RATINGS AND CHARACTERISTIC CURVES (TS6P01G THRU TS6P07G)





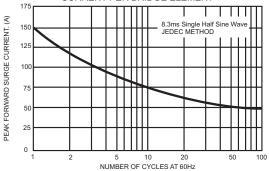
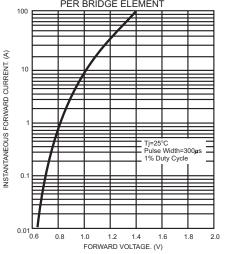


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



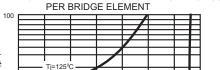


FIG.2- TYPICAL REVERSE CHARACTERISTICS

