



# Single Phase 6.0 AMPS. Glass Passivated Bridge Rectifiers

TS-6P





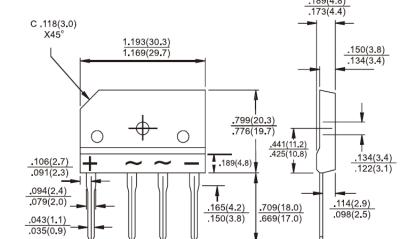


#### **Features**

- ♦ UL Recoganized File # E-326243
- ♦ Glass passivated junction
- ♦ Ideal for printed circuit board
- ♦ High case dielectric strength of 2000V<sub>RMS</sub>
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- → Typical IR less than 0.1 uA
- High surge current capability to 150A
- → High temperature soldering guaranteed:
   260°C / 10 seconds at 5 lbs., (2.3kg) tension
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

# **Mechanical Data**

- ♦ Case: Molded plastic body
- Terminals: Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ♦ Weight: 7.15 grams
- ♦ Mounting torque: 8.17 in. lbs. Max.



### **Dimensions in inches and (millimeters)**

# TS6P0XG S GYWW

402(10.2)

.303

(7.7)

.287

(7.3)

.303

(7.7)

.287

(7.3)

### **Marking Diagram**

TS6P0XG = Specific Device Code G = Green Compound

.031(0.8)

.024(0.6)

Y = Year WW = Work Week

# **Maximum Ratings and Electrical Characteristics**

Rating at 25  $^{\circ}$ C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

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 @ $T_c$ =110 $^{\circ}$ C	I <sub>F(AV)</sub>				6				Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	150							Α
Rating of fusing ( t < 8.3mS)	l <sup>2</sup> t	93						$A^2S$	
Maximum Instantaneous Forward Voltage (Note 1) @ 3 A @ 6 A	V <sub>F</sub>	1.0 1.1						٧	
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	I <sub>R</sub>	10 500						uA uA	
Typical Junction Capacitance Per Leg (Note 2)	Cj	53						pF	
Typical Thermal Resistance	$R_{ heta JC}$	1.8						°C/W	
Operating Temperature Range	$T_J$	- 55 to + 150						οС	
Storage Temperature Range	T <sub>STG</sub>	- 55 to + 150						οС	

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2 : Measured at 1MHz applied Reverse bias of 4.0V DC.



# RATINGS AND CHARACTERISTIC CURVES (TS6P01G THRU TS6P07G)

