



Single Phase 6.0 AMPS. Glass Passivated Bridge Rectifiers



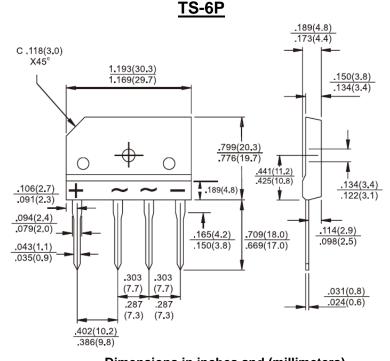


Features

- ♦ UL Recoganized File # E-326243
- ♦ Glass passivated junction
- ♦ Ideal for printed circuit board
- ♦ High case dielectric strength of $2000V_{RMS}$
- 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) Marking Diagram

TS6P0XG

G

Y

ww

- TS6P0XG S O GYWW
- = Specific Device Code
 - = Green Compound
 - = Year
 - = 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%

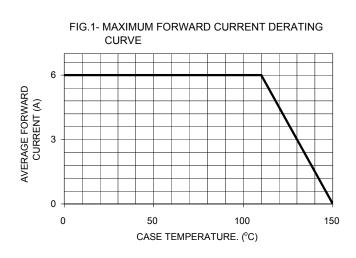
Type Number	Symbol	TS6P 01G	TS6P 02G	TS6P 03G	TS6P 04G	TS6P 05G	TS6P 06G	TS6P 07G	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T_c =110 $^{\circ}$ C	I _{F(AV)}	6							А
Peak Forward Surge Current, 8.3 ms Single Half Sine- wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							А
Rating of fusing (t < 8.3mS)	l ² t	93						A ² S	
Maximum Instantaneous Forward Voltage (Note 1) @ 3 A @ 6 A	V _F	1.0 1.1						V	
Maximum DC Reverse Current@ $T_A=25 \degree C$ at Rated DC Blocking Voltage@ $T_A=125 \degree C$	I _R	10 500						uA uA	
Typical Junction Capacitance Per Leg (Note 2)	Cj	53						pF	
Typical Thermal Resistance	$R_{ extsf{ heta}JC}$	1.8						^o C/W	
Operating Temperature Range	TJ	- 55 to + 150						°C	
Storage Temperature Range	T _{STG}	- 55 to + 150						°C	

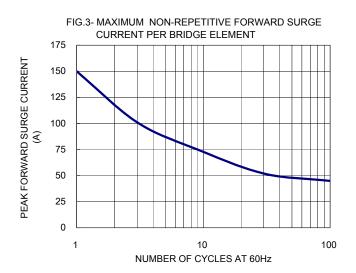
Note 1 : Pulse Test with PW=300 usec, 1% Duty Cycle

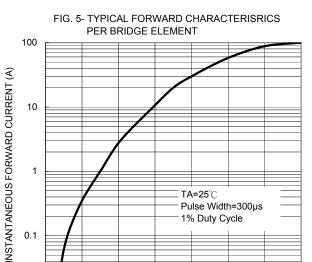
Note 2 : Measured at 1MHz applied Reverse bias of 4.0V DC.



RATINGS AND CHARACTERISTIC CURVES (TS6P01G THRU TS6P07G)







0.01 L

0.8

1.0

1.2

FORWARD VOLTAGE (V)

1.4

1.6

1.8

2.0

