



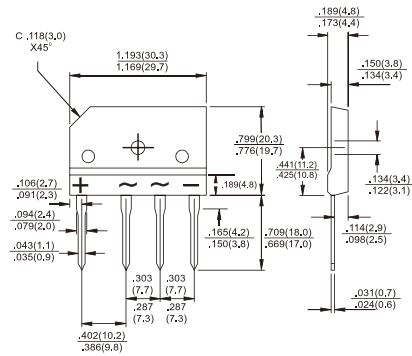
TS15P01G - TS15P07G

Single Phase 15.0 AMPS.
Glass Passivated Bridge Rectifiers

TS-6P

Features

- ◇ UL Recognized 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 0.1uA
- ◇ High surge current capability to 240A
- ◇ High temperature soldering guaranteed: 260 °C / 10 seconds at 5 lbs., (2.3 kg) tension
- ◇ Green compound with suffix "G" on packing code & prefix "G" on datecode.

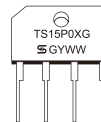


Dimensions in inches and (millimeters)

Marking Diagram

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.



TS15P0XG = Specific Device Code
G = Green Compound
Y = Year
WW = Work Week

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	TS15P01G	TS15P02G	TS15P03G	TS15P04G	TS15P05G	TS15P06G	TS15P07G	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°C	I _{F(AV)}	15.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	240							A
Rating of fusing (t < 8.3mS)	I ² t	239							A ² S
Maximum Instantaneous Forward Voltage @ 7.5A @ 15A	V _F				1.0	1.1			V
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage (Note 1) @ T _A =125 °C	I _R				10	500			uA uA
Typical Junction Capacitance Per Leg(Note 3)	C _j	90							pF
Typical Thermal Resistance(Note 2)	R _{θJC}	0.8							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to + 150							°C

Note : 1. Pulse Test with PW=300 usec,1% Duty Cycle
2. Device mounted on 4" x 5" x 0.25" Al plate heat sink.
3. Measured at 1MHz and applied Reverse bias of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES (TS15P01G THRU TS15P07G)

FIG.1- MAXIMUM SURGE CURRENT PER LEG

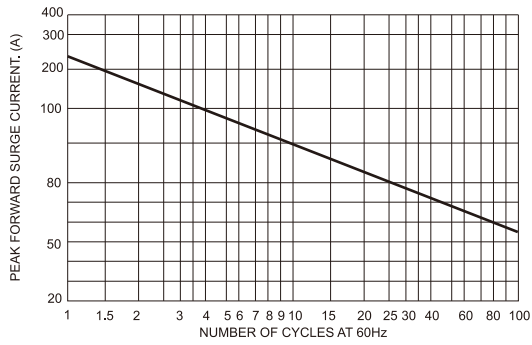


FIG.2- TYPICAL FORWARD CHARACTERISTICS PER LEG

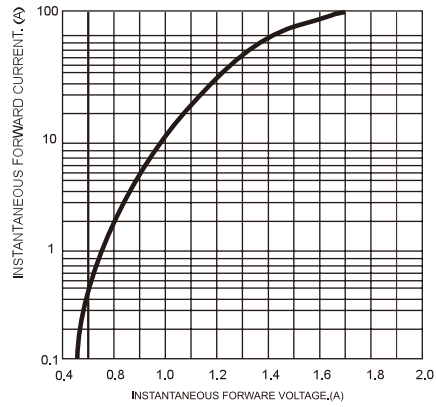


FIG 3 Maximum Derating Curve for Output Current

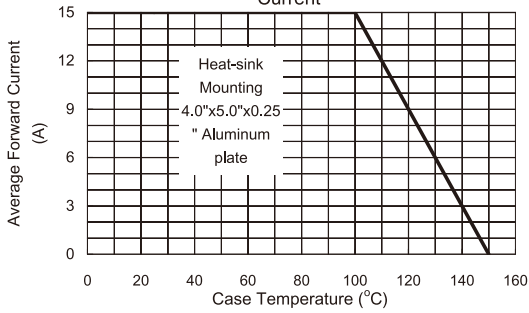


FIG 4 Typical Junction Capacitance

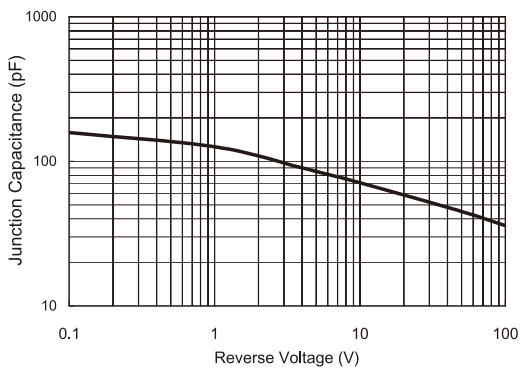


FIG 5 Typical Reverse Characteristics per Leg

