



RoHS COMPLIANCE



TS15P01G - TS15P07G

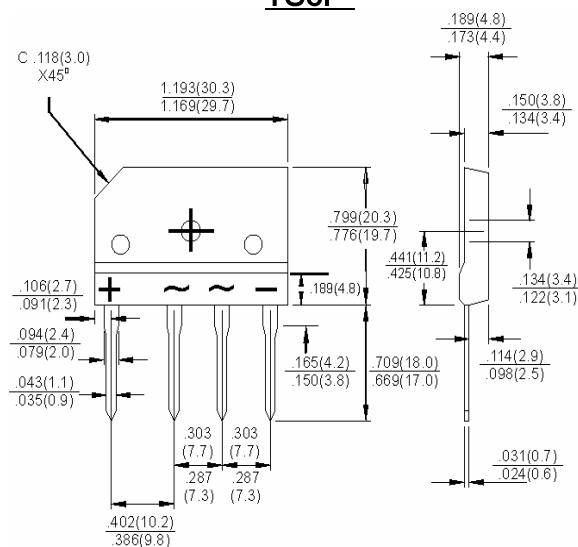
Single Phase 4.0 AMPS.

Glass Passivated Bridge Rectifiers

TS6P

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 200A
- ◇ 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.



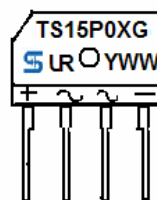
Mechanical Data

- ◇ Case : Molded plastic body
- ◇ Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ◇ Weight : 7.15 grams (0.268 ounce)
- ◇ Mounting Torque : 8.17 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%

Marking Diagram



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

| 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 = 100°C | I _(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 @ 15.0A | V _F | 1.0 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C | I _R | 10 500 | | | | | | | uA |
| Typical Junction Capacitance per leg (Note 1) | C _j | 90 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | R _{θJC} | 0.8 | | | | | | | oC/W |
| Operating Temperature Range | T _J | -55 to +150 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | °C |

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

2. Device mounted on 4" x 5" x 0.25" Al-plate heat sink,

Rating and Sharacteristic Curves (TS15P01G Thru TS15P07G)

FIG 1 Maximum Derating Curve for Output Current

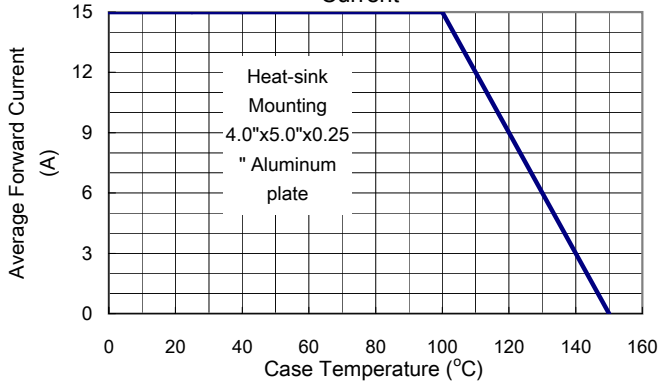


FIG 2 Maximum Forward Surge Current per Leg

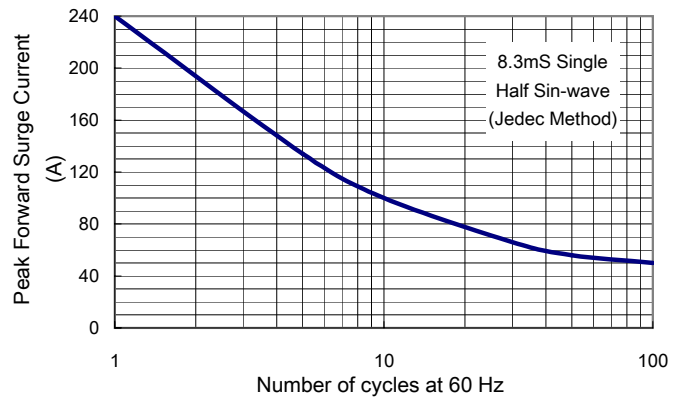


FIG 3 Typical Reverse Characteristics per Leg

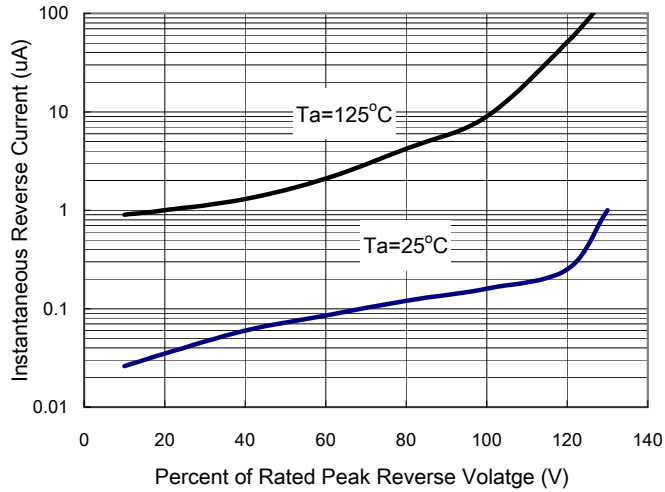


FIG 4 Typical Forward Characteristics per Leg.

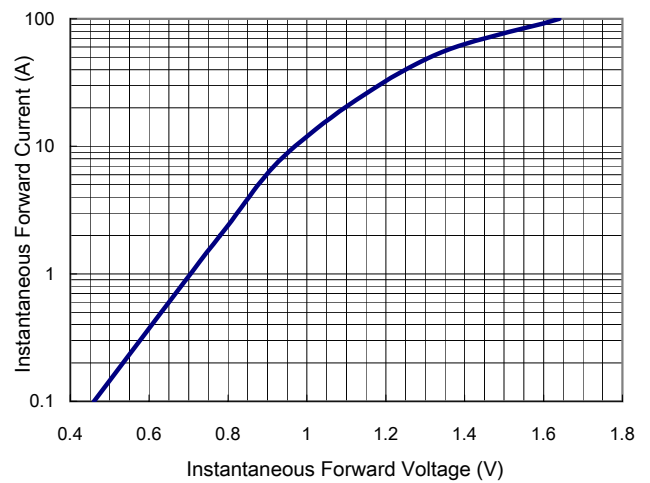


FIG 5 Typical Junction Capacitance

