

TS15P01G - TS15P07G
Single Phase 15.0 AMPS,
Glass Passivated Bridge Rectifiers
TS6P

Features

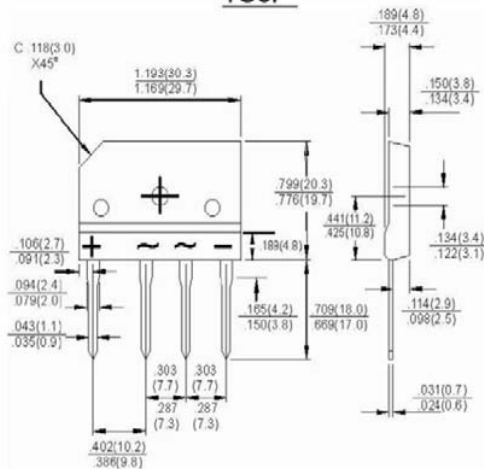
- ✧ UL Recognized File # E-326243
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ High case dielectric strength of 2000V_{RMS}
- ✧ Plastic material has Underwriters laboratory flammability Classification 94V-0
- ✧ Typical IR less than 0.1uA
- ✧ High surge current capability to 240A
- ✧ 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.

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.

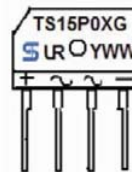
Maximum Ratings and Electrical Characteristics

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%



Dimension in inches and (millimeter)

Marking Diagram



TS15P01G = 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 @ $T_c = 110^\circ\text{C}$	$I_{(AV)}$	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^2t	239							A ² S
Maximum Instantaneous Forward Voltage @ 7.5A @ 15.0A	V_F	1.0 1.1							V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	10 500							uA
Typical Junction Capacitance per leg (Note 1)	C_j	90							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	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

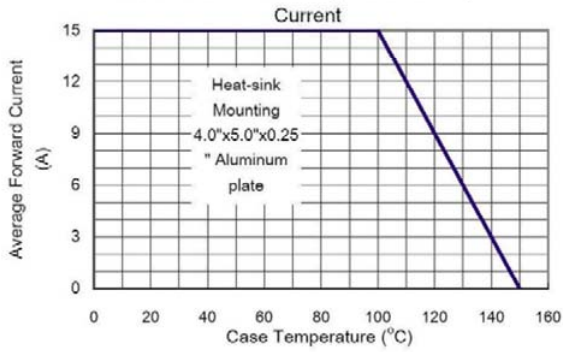


FIG 2 Maximum Forward Surge Current per Leg

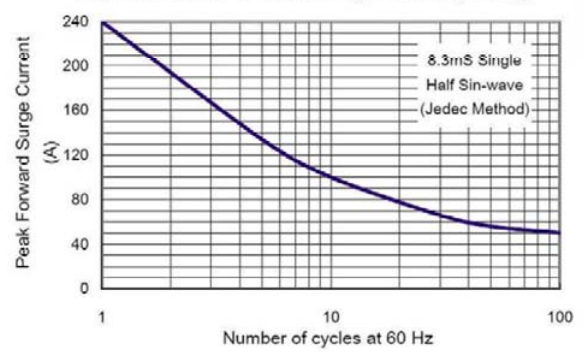


FIG 3 Typical Reverse Characteristics per Leg

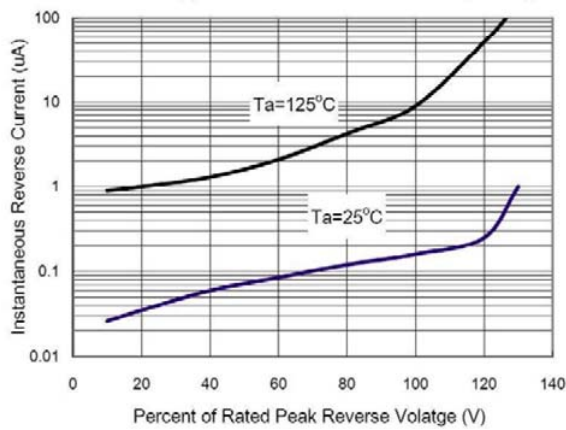


FIG 4 Typical Forward Characteristics per Leg.

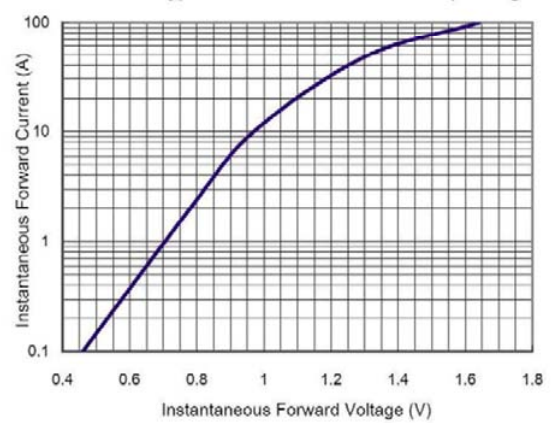


FIG 5 Typical Junction Capacitance

