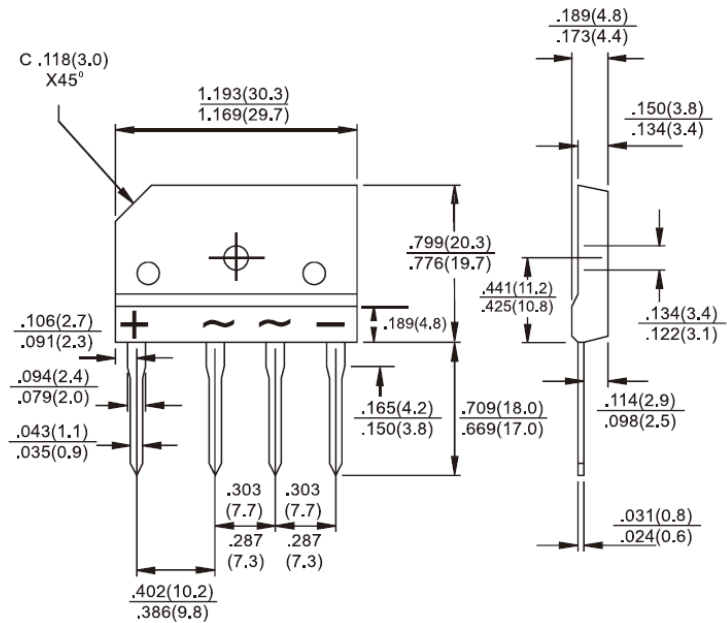


TS25P01G - TS25P07G
Single Phase 25.0 Amps. Glass Passivated Bridge Rectifiers

TS-6P

Features

- ✦ UL Recognized File #E-326243
- ✦ Glass passivated junction
- ✦ Ideal for printed circuit board
- ✦ High case dielectric strength of 2500V_{RMS}
- ✦ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ✦ Typical IR less than 0.1uA
- ✦ High surge current capability to 350A
- ✦ 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, solderable per MIL-STD-202, Method 208 guaranteed
- ✦ Weight: 7.15 grams
- ✦ Mounting Torque : 8.17 in-lbs Max.

Dimensions in inches and (millimeters)



Marking Diagram

- TS25P0XG = 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	TS25P01G	TS25P02G	TS25P03G	TS25P04G	TS25P05G	TS25P06G	TS25P07G	Unit
Maximum Repetitive 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 _{F(AV)}	25							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	350							A
Rating of fusing (t<8.3ms)	I ² T	508							A ² S
Maximum Instantaneous Forward Voltage @ 12.5A (Note 1) @ 25.0A	V _F	1.0 1.1							V
Maximum Reverse Current @ Rated VR T _A =25 °C T _A =125 °C	I _R	10 500							uA
Typical Junction Capacitance per leg (Note 2)	C _j	140							pF
Typical Thermal Resistance	R _{θJC}	6.5							°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

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

RATINGS AND CHARACTERISTIC CURVES (TS25P01G THRU TS25P07G)

FIG.1 FORWARD CURRENT DERATING CURVE

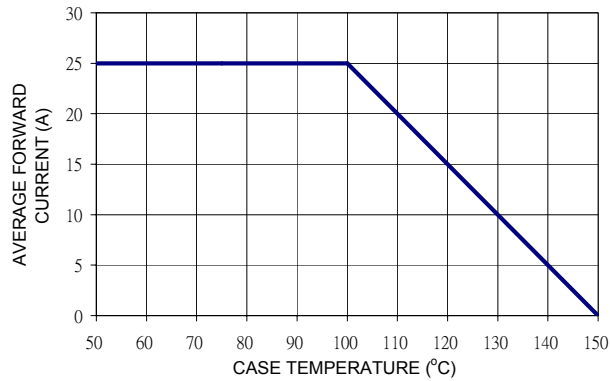


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

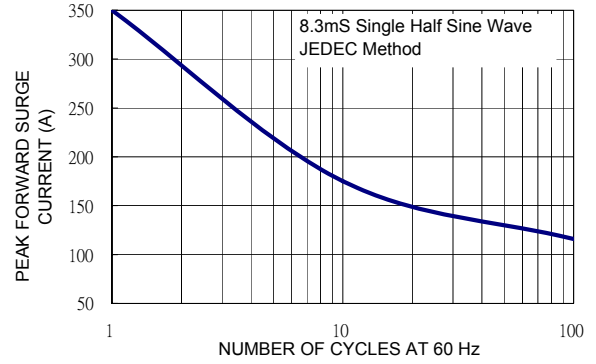


FIG. 3 TYPICAL REVERSE CHARACTERISTICS PER LEG

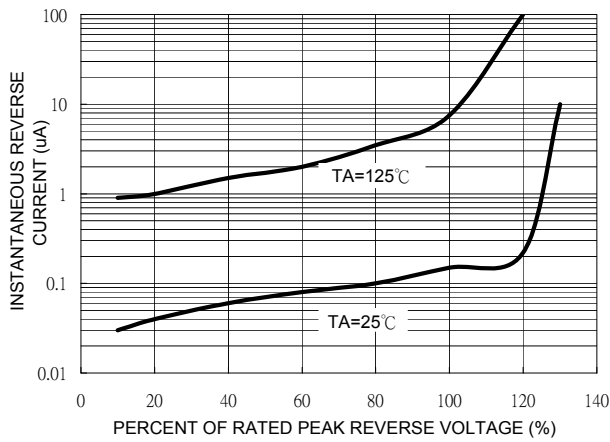


FIG. 4 TYPICAL FORWARD CHARACTERISTICS PER LEG

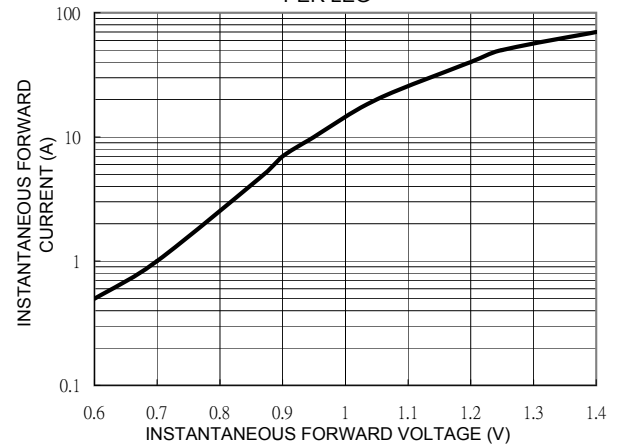


FIG. 5 TYPICAL JUNCTION CAPACITANCE

