



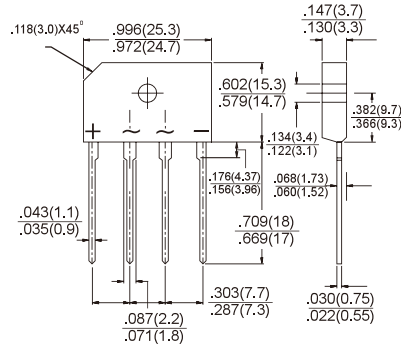
TS4B01G - TS4B07G

Single Phase 4.0 AMPS.
Glass Passivated Bridge Rectifiers

TS4B

Features

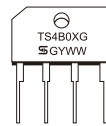
- ✧ UL Recognized File # E-326243
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction
- ✧ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ✧ Surge overload rating to 120 amperes peak
- ✧ High case dielectric strength of 2000V_{RMS}
- ✧ 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
- ✧ Weight: 4 grams
- ✧ Mounting torque: 5 in. lbs. Max.



TS4B0XG = 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	TS4B01G	TS4B02G	TS4B03G	TS4B04G	TS4B05G	TS4B06G	TS4B07G	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 = 115 °C	I _{F(AV)}	4.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	120							A
Rating for fusing (t<8.3ms)	I ² t	60							A ² S
Maximum Instantaneous Forward Voltage @ 2.0A @ 4.0A	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	5.0 500							uA uA
Typical Thermal Resistance (Note 2)	R _{θJC}	5.5							°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
2. Mounted on 2" x 3" x 0.25" Al Plate Heat sink.

RATINGS AND CHARACTERISTIC CURVES (TS4B01G THRU TS4B07G)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE PER BRIDGE ELEMENT

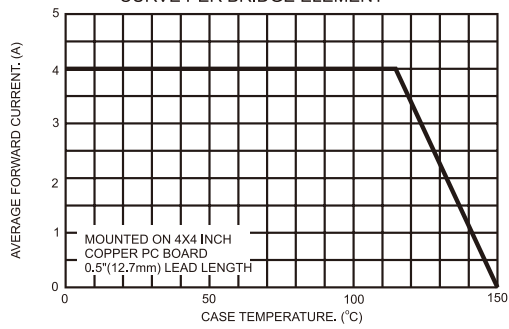


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

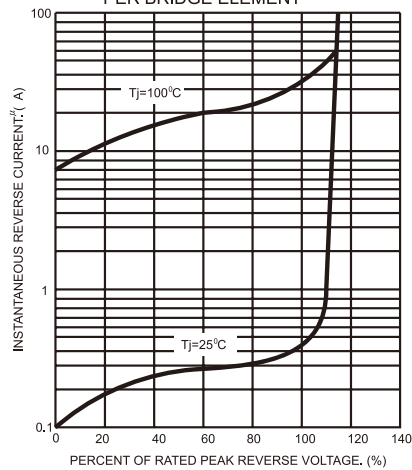


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

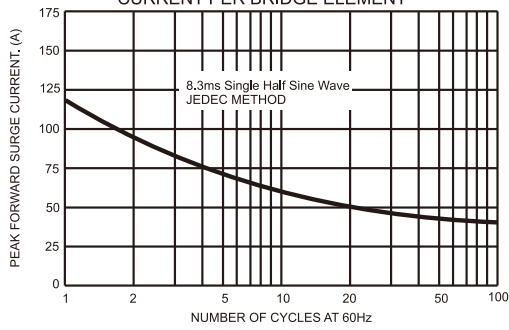


FIG.4- TYPICAL JUNCTION CAPACITANCE

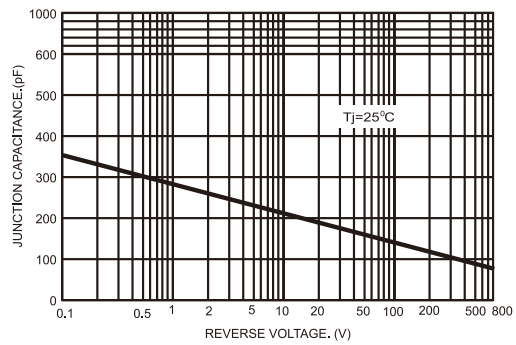


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

