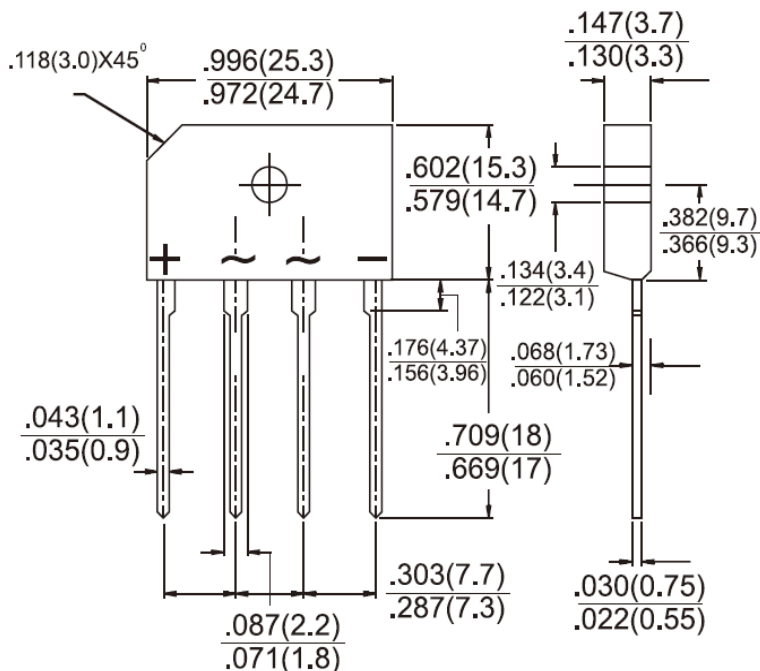




### Features

- ✧ 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<sub>RMS</sub>
- ✧ 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

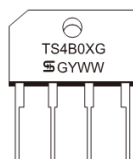


### Mechanical Data

- ✧ Case: Molded plastic
- ✧ Weight: 4 grams
- ✧ Mounting torque : 5 in-lbs Max.

### Dimensions in inches and (millimeters)

#### Marking Diagram



- 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	TS4B 01G	TS4B 02G	TS4B 03G	TS4B 04G	TS4B 05G	TS4B 06G	TS4B 07G	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 @ $T_C=115^\circ C$	$I_{F(AV)}$	4							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	120							A
Rating of fusing ( $t < 8.3ms$ )	$I^2t$	60							A <sup>2</sup> S
Maximum Instantaneous Forward Voltage @ 2 A (Note 1)	$V_F$	1.0							V
@ 4 A		1.1							
Maximum DC Reverse Current @ $T_A=25^\circ C$	$I_R$	5							uA
at Rated DC Blocking Voltage @ $T_A=125^\circ C$		500							
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	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

Note 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

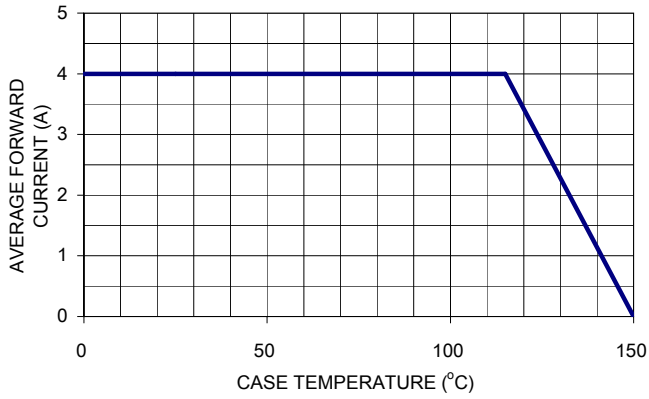


FIG. 2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

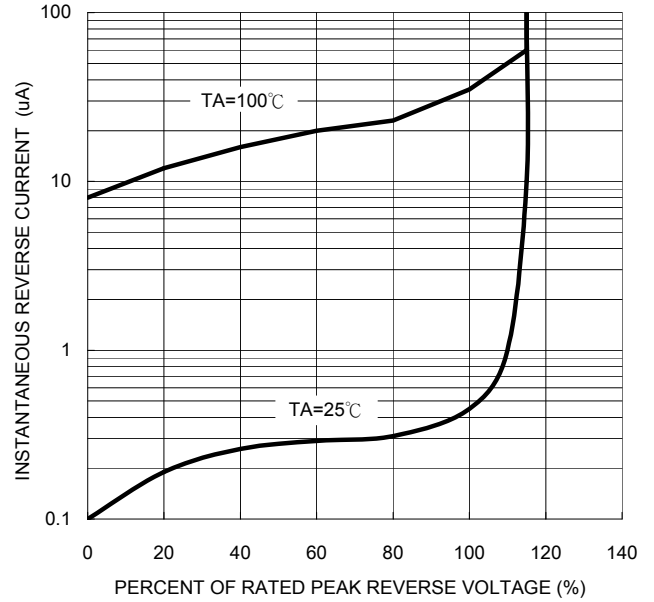


FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

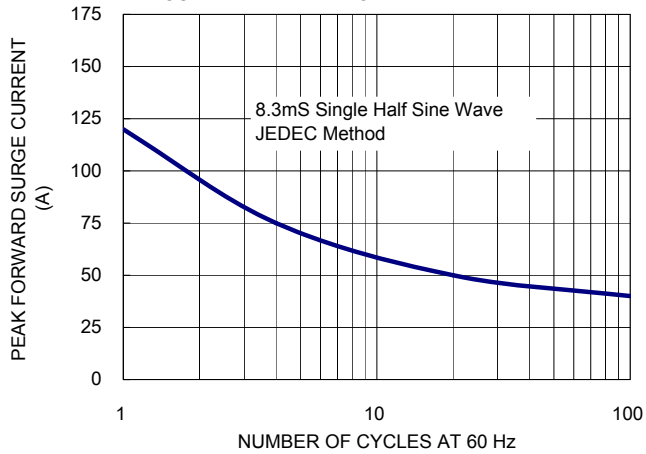


FIG. 4- TYPICAL JUNCTION CAPACITANCE

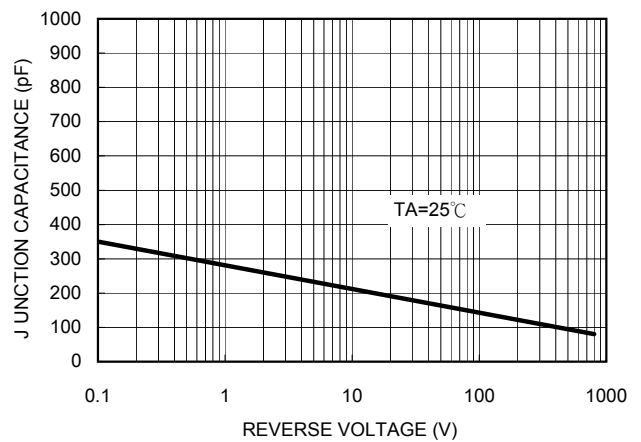


FIG. 5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

