



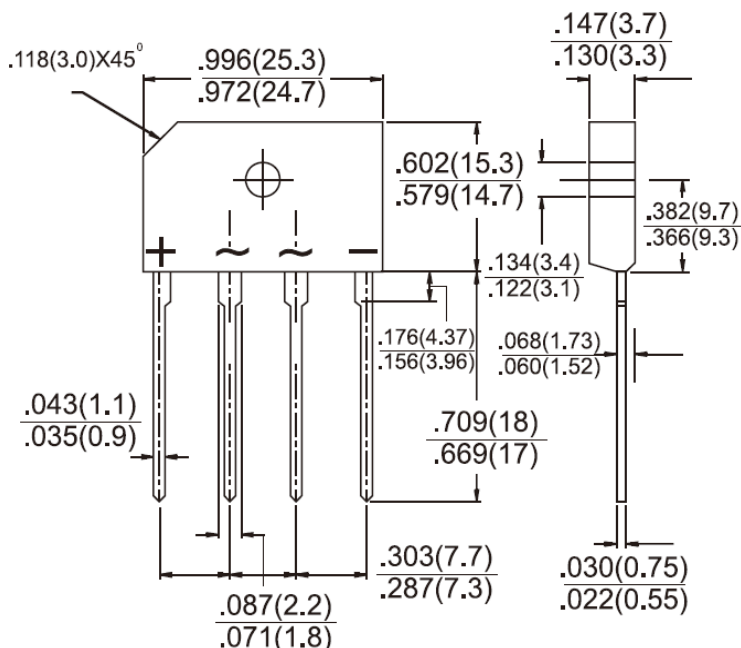
**RoHS**  
COMPLIANCE



## TS4B

### Features

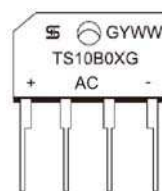
- ✧ UL Recognized File # E-326243
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction
- ✧ Plastic material has Underwriters laboratory Flammability Classification 94V-0
- ✧ Surge overload rating to 150 amperes peak
- ✧ High case dielectric strength of 2000V<sub>RMS</sub>
- ✧ Isolated voltage from case to lead over 2500 volts
- ✧ High temperature soldering guaranteed:  
260°C/10 seconds / 0.375", (9.5mm) lead length at 5 lbs.,(2.3kg) tension
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode



### Mechanical Data

- ✧ Case: Molded plastic
- ✧ Terminals: Leads solderable per MIL-STD-750, Method 2026
- ✧ Weight: 4 grams
- ✧ Mounting Torque : 5 in-lbs Max.

### Dimensions in inches and (millimeters)



#### Marking Diagram

- TS10B0XG = 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	TS10B01G	TS10B02G	TS10B03G	TS10B04G	TS10B05G	TS10B06G	TS10B07G	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 @ $T_C=100^\circ\text{C}$	$I_{F(AV)}$	10							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	150							A
Rating of fusing ( $t < 8.3\text{ms}$ )	$I^2T$	93							A <sup>2</sup> S
Maximum Instantaneous Forward Voltage (Note 1) @ 5 A @10 A	$V_F$	1.0 1.1							V
Maximum Reverse Current @ Rated VR $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	$I_R$	10 500							uA
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.4							°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 : Mount on Heatsink Size of 4" x 6" x 0.25" Al-Plate

## RATINGS AND CHARACTERISTIC CURVES (TS10B01G THRU TS10B07G)

FIG. 1 FORWARD CURRENT DERATING CURVE

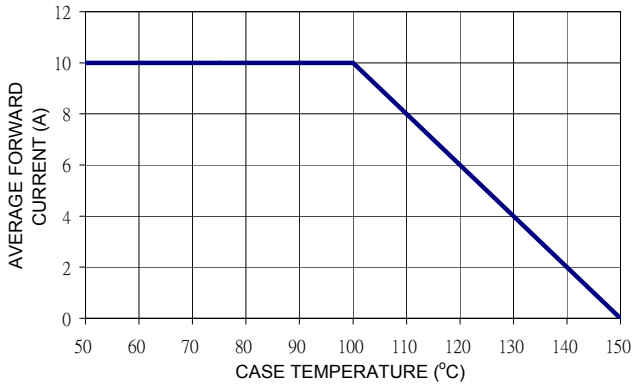


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

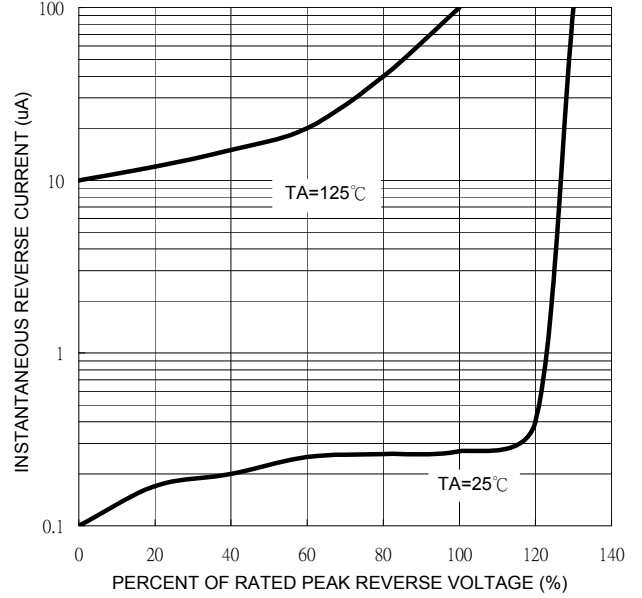


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

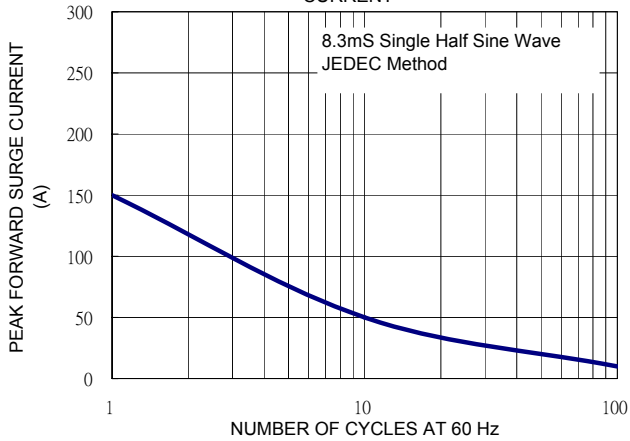


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

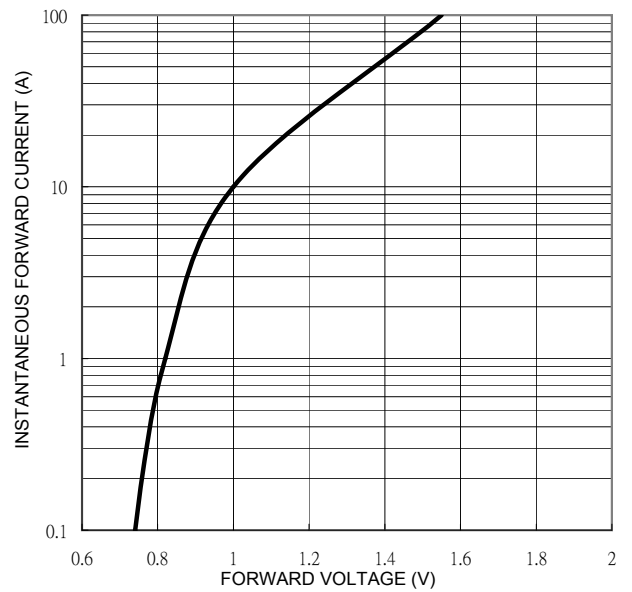


FIG. 4 TYPICAL JUNCTION CAPACITANCE

