

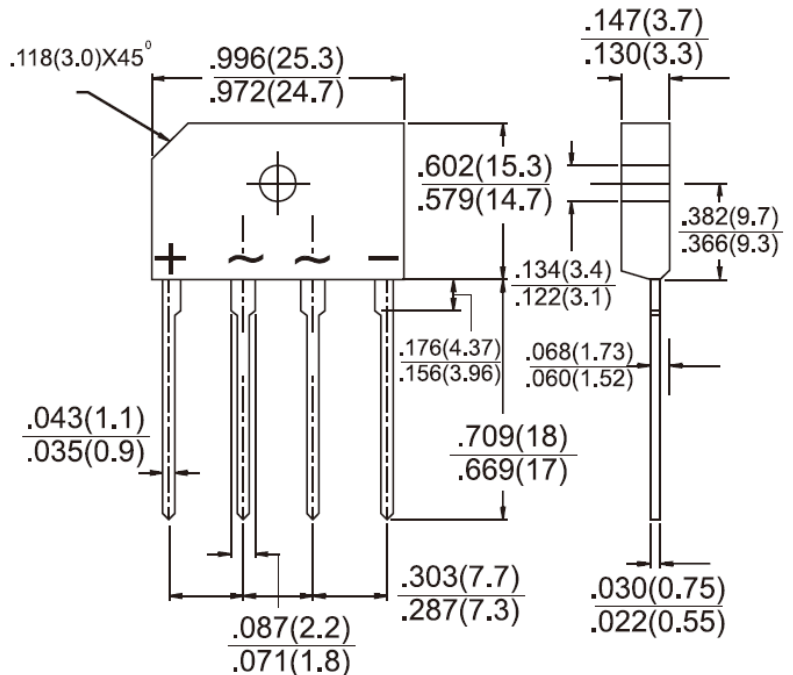


RoHS COMPLIANCE



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_{RMS}
- ✧ 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

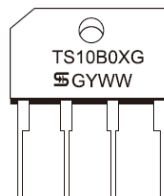


Mechanical Data

- ✧ 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°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<8.3ms)	I ² T	93							A ² S
Maximum Instantaneous Forward Voltage @ 5.0A @10.0A	V _F	1.0 1.1							V
Maximum Reverse Current @ Rated VR (Note 1) T _A =25 °C T _A =125 °C	I _R	10 500							uA
Typical Thermal Resistance (Note 2)	R _{θJC}	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

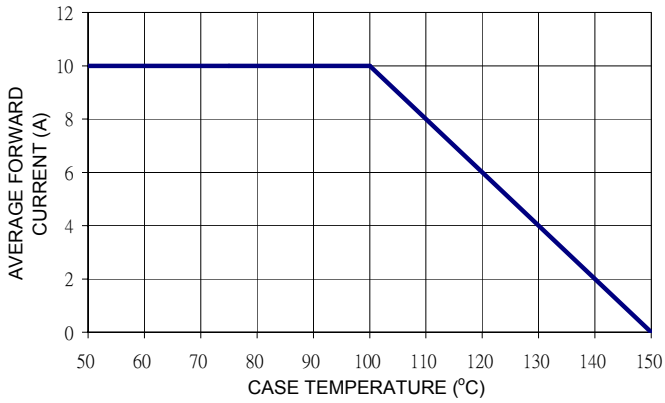


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

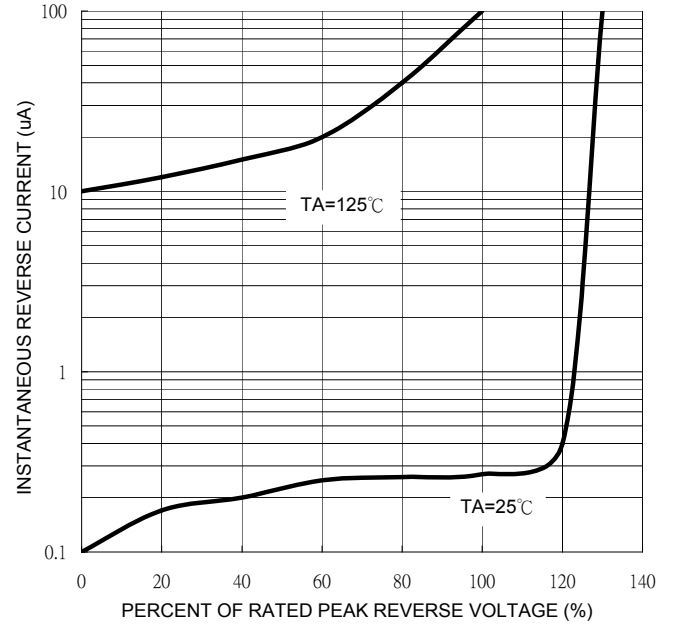


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

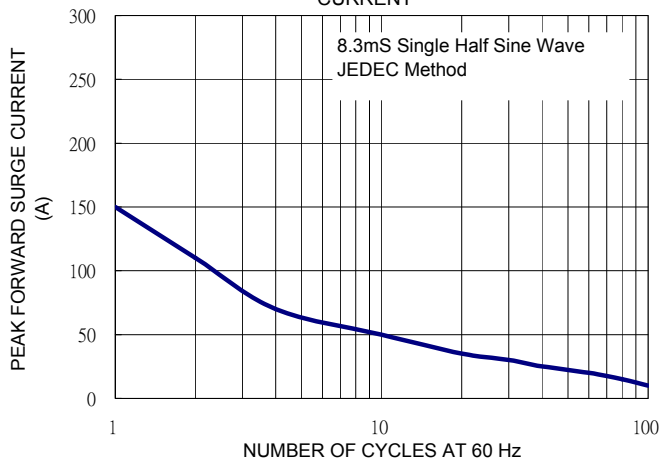


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

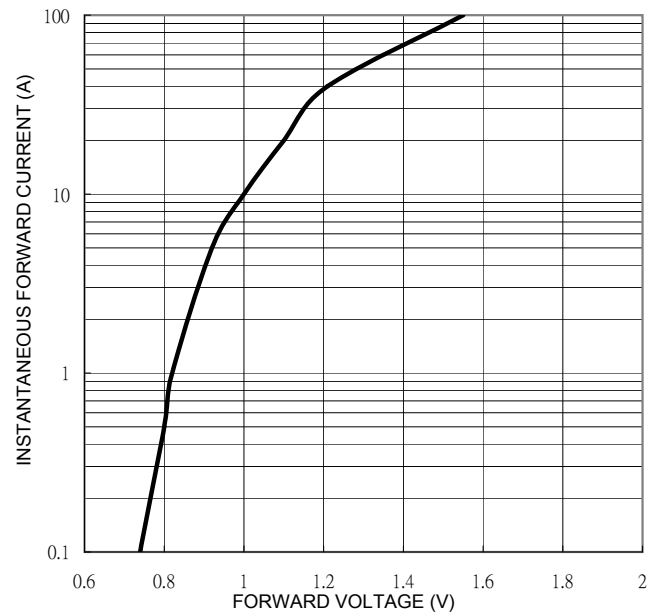


FIG. 4 TYPICAL JUNCTION CAPACITANCE

