

TS4B

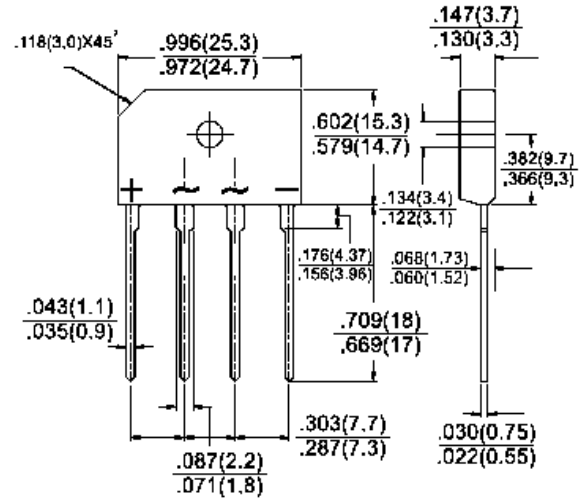


RoHS COMPLIANCE



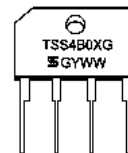
Features

- ✧ 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
- ✧ Low Forward Voltage Drop.
- ✧ High case dielectric strength of 2000V_{RMS}
- ✧ 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.



Dimensions in inches and (millimeters)

Marking Diagram



- TSS4B0XG = Specific Device Code
- G = Green Compound
- Y = Year
- WW = Work Week

Mechanical Data

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

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	TSS4B 01G	TSS4B 02G	TSS4B 03G	TSS4B 04G	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	V
Maximum Average Forward Rectified Current @ T _C =100°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}	150				A
Maximum Instantaneous Forward Voltage (Note 1) @ 4 A	V _F	0.98		1.3		V
Maximum Reverse Recovery Time(Note 2)	T _{rr}	35		50		nS
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage @ T _A =125 °C	I _R	5		500		uA
Typical Thermal Resistance (Note 3)	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

Note 2 : Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A.

Note 3 : Mounted on 2" x 3" x 0.25" Al-Plate Heatsink.

RATINGS AND CHARACTERISTIC CURVES (TSS4B01G THRU TSS4B04G)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

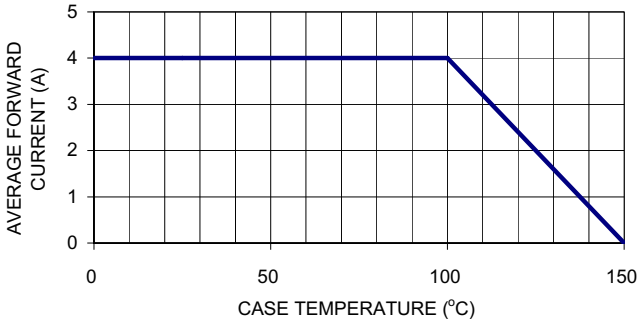


FIG. 2- TYPICAL FORWARD CHARACTERISTICS

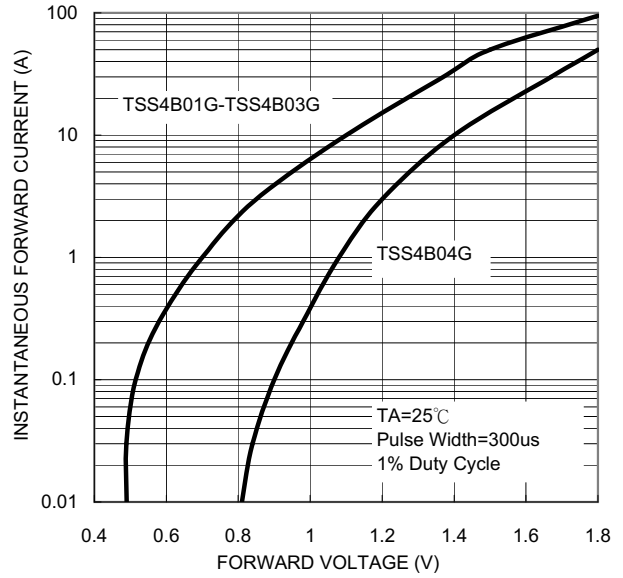


FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

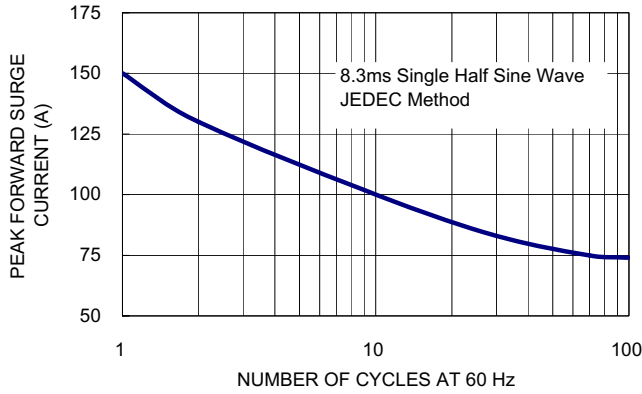


FIG. 5- TYPICAL REVERSE CHARACTERISTICS

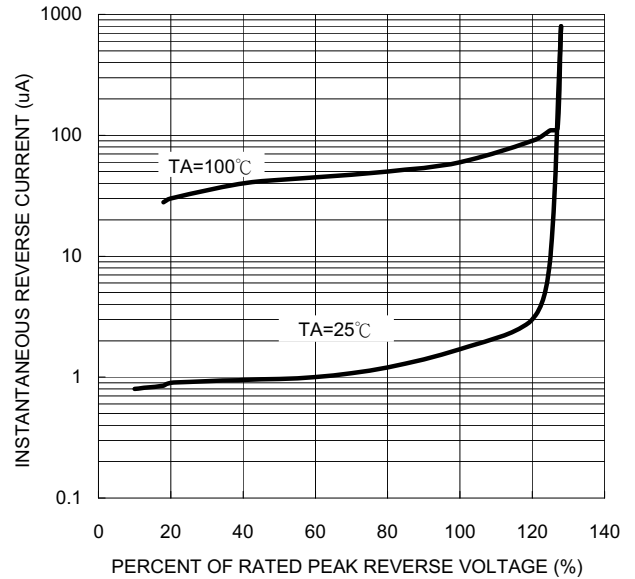


FIG. 4- TYPICAL JUNCTION CAPACITANCE

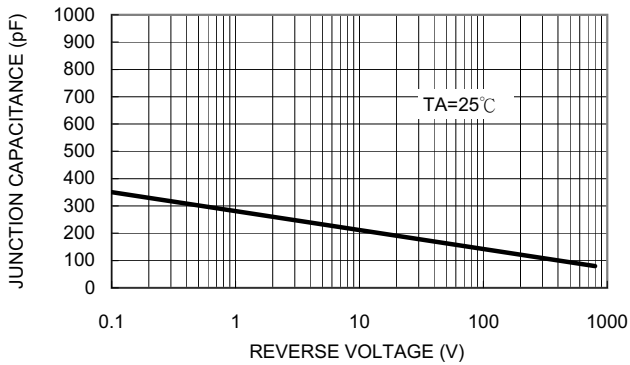


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

