

TSS4B01G - TSS4B04G

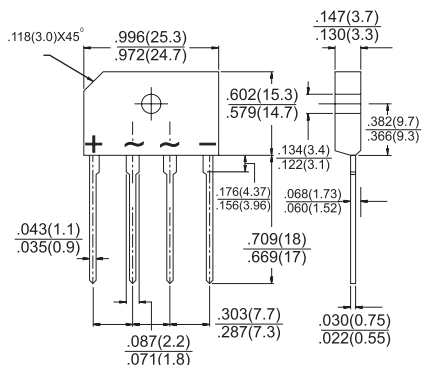
Single Phase 4.0 Amps.
Glass Passivated Super Fast Bridge Rectifiers

TS4B



Features

- ✧ UL recognized file # E-96005
- ✧ 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. (2.3 Kg) tension



Mechanical Data

- ✧ Case: Molded plastic
- ✧ Terminals: Leads solderable per MIL-STD-750, Method 2026
- ✧ Weight: 0.15 ounce, 4 grams
- ✧ Mounting torque: 5 in. lbs. max.

Dimensions in inches and (millimeters)

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 @ $T_C=100^{\circ}C$	$I_{(AV)}$	4.0				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 @ 4.0A	V_F	0.98			1.3	V
Maximum Reverse Recovery Time(Note 1)	T_{rr}	35			50	nS
Maximum DC Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A=125^{\circ}C$	I_R	5.0			500	uA uA
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	5.5				$^{\circ}C/W$
Operating Temperature Range	T_J	-55 to +150				$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to + 150				$^{\circ}C$

Notes: 1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$.

2. Thermal Resistance from Junction to Case with Device Mounted on 2" x 3" x 0.25" Al-Plate Heatsink.

RATINGS AND CHARACTERISTIC CURVES (TSS4B01G THRU TSS4B04G)

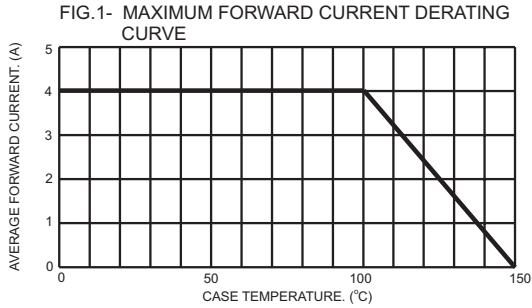


FIG.2- TYPICAL FORWARD CHARACTERISTICS

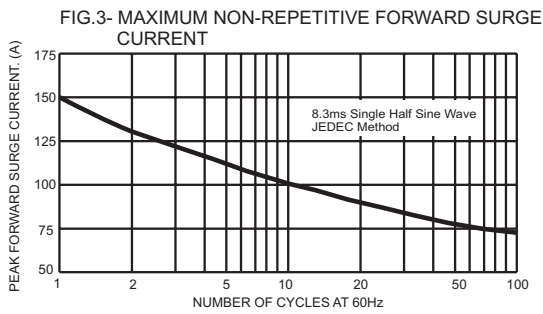
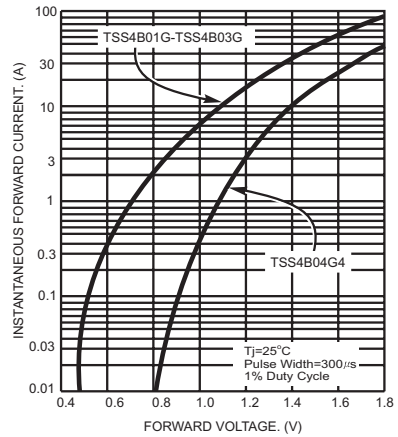


FIG.5- TYPICAL REVERSE CHARACTERISTICS

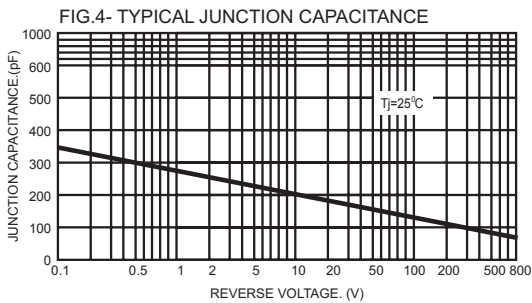
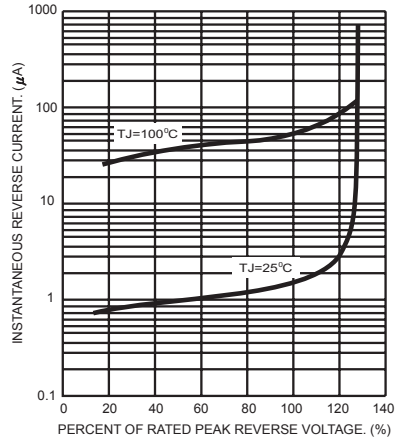


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

