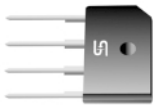
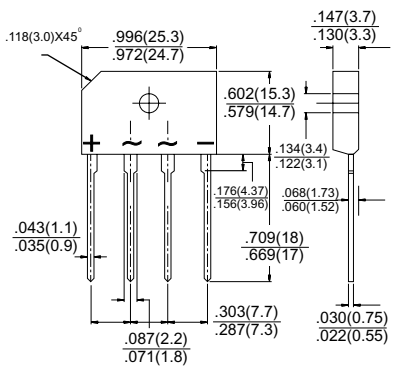
TS6B01G THRU TS6B07G

Single Phase 6.0 Amps. Glass Passivated Bridge Rectifiers



Voltage Range
50 to 1000 Volts
Current
6.0 Amperes

TS4B



Dimensions in inches and (millimeters)

Features

- ✧ UL Recognized File # E-96005
- ✧ 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

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.

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	TS6B 01G	TS6B 02G	TS6B 03G	TS6B 04G	TS6B 05G	TS6B 06G	TS6B 07G	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 2	6.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	150							A
Maximum Instantaneous Forward Voltage @ 6.0A	1.0							V
Maximum DC Reverse Current @ T_A=25°C at Rated DC Blocking Voltage @ T_A=125°C	5.0 500							uA uA
Operating Temperature Range T_J	-55 to +150							°C
Storage Temperature Range T_{STG}	-55 to + 150							°C

RATINGS AND CHARACTERISTIC CURVES (TS6B01G THRU TS6B07G)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

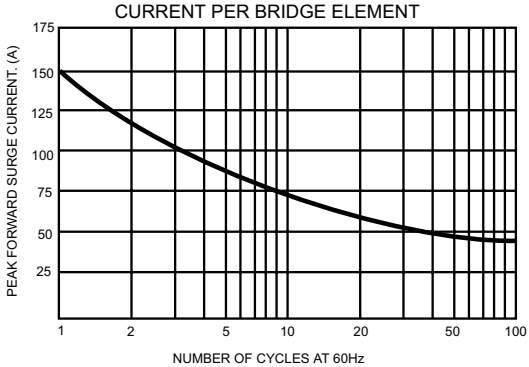


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

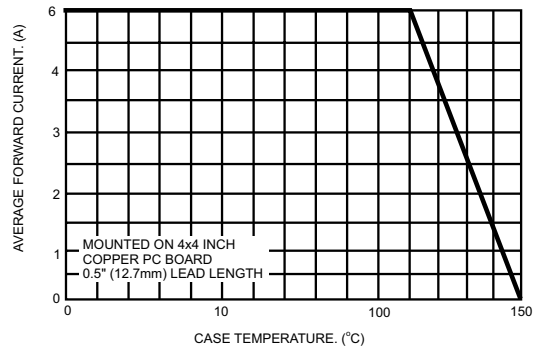


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

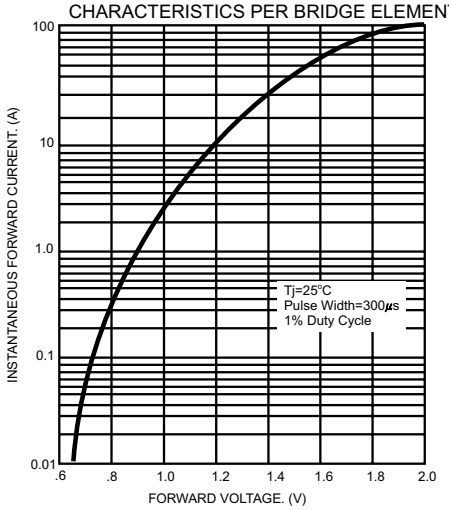
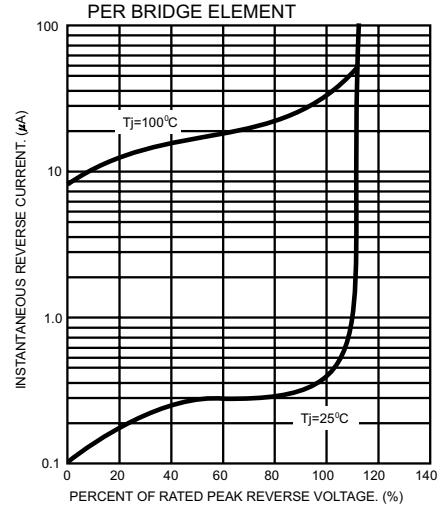



FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT