



# TS20P01G THRU TS20P07G

Single Phase 20.0 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range  
50 to 1000 Volts  
Current  
20.0 Amperes

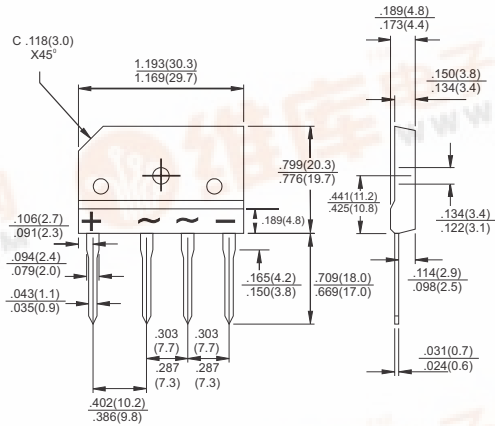
## Features

- ◇ 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
- ◇ Surge overload rating to 250 amperes peak
- ◇ High case dielectric strength of 2000 V<sub>RMS</sub>

## Mechanical Data

- ◇ Case: Molded plastic
- ◇ Terminals: Leads solderable per MIL-STD-750, Method 2026
- ◇ Weight: 0.3 ounce, 8 grams
- ◇ Mounting torque: 8.17 in. lbs. max.

## TS-6P



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	TS20P01G	TS20P02G	TS20P03G	TS20P04G	TS20P05G	TS20P06G	TS20P07G	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1	I <sub>(AV)</sub>	20.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	250							A
Maximum Instantaneous Forward Voltage @ 20.0A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =125°C	I <sub>R</sub>	10.0							uA
		500							uA
Typical Thermal Resistance (Note)	R <sub>θJC</sub>	0.8							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

Note: Thermal Resistance from Junction to Case with Device Mounted on 5" x 7" x 0.25" Al-Plate Heatsink.





## RATINGS AND CHARACTERISTIC CURVES (TS20P01G THRU TS20P07G)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

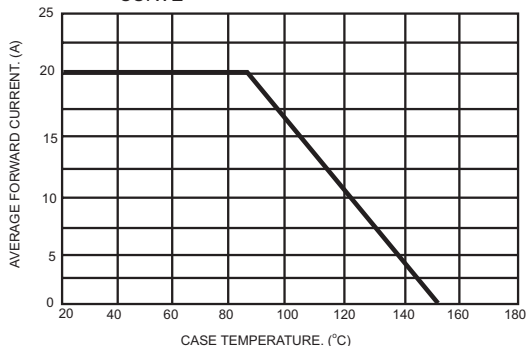


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

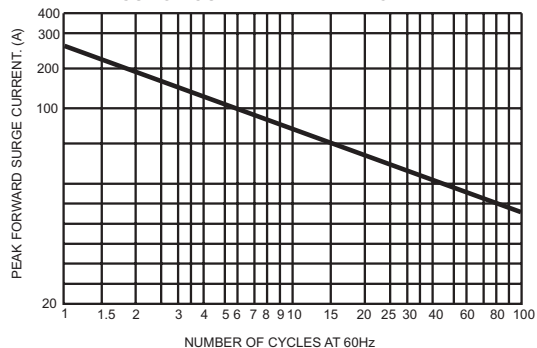


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

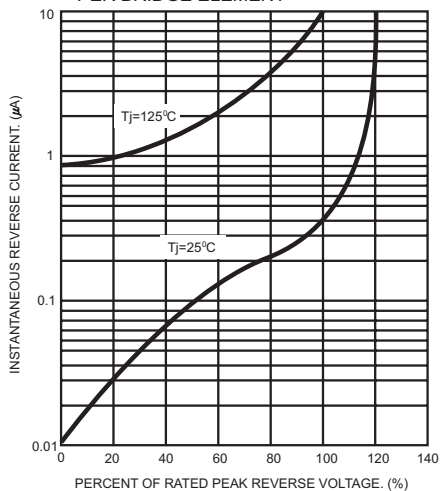


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

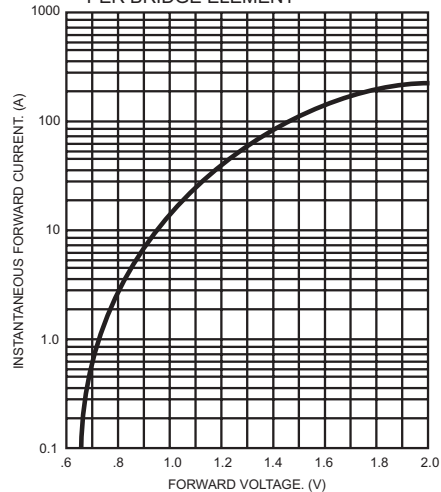


FIG.5- TYPICAL TRANSIENT THERMAL IMPEDANCE

