



# TS20P01G THRU TS20P07G

Single Phase 20.0 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range  
50 to 1000 Volts  
Current  
20.0 Amperes

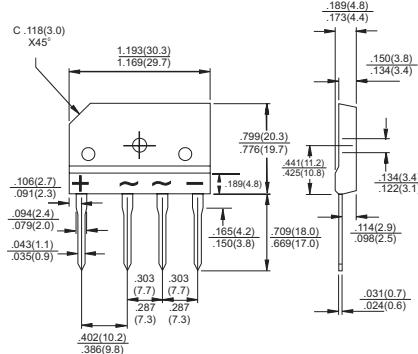
## TS-6P

### 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 2000V<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: 8.71 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	TS20P 01G	TS20P 02G	TS20P 03G	TS20P 04G	TS20P 05G	TS20P 06G	TS20P 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. 1					20.0			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )					250			A
Maximum Instantaneous Forward Voltage @ 20.0A				1.1				V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =125°C				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 300mm x 300mm x 1.6mm Cu Plate Heatsink.

## RATINGS AND CHARACTERISTIC CURVES (TS20P01G THRU TS20P07G)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

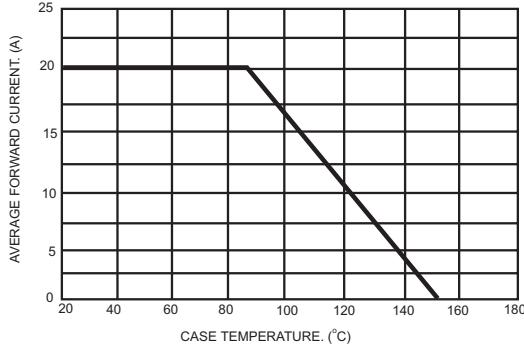


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

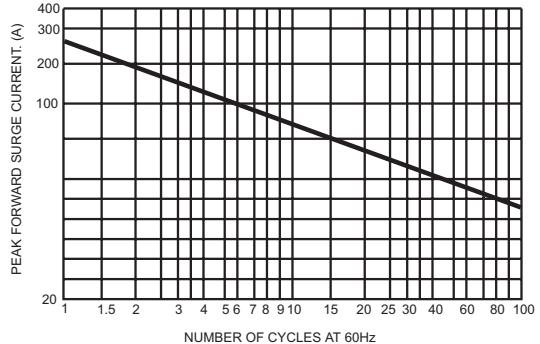


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

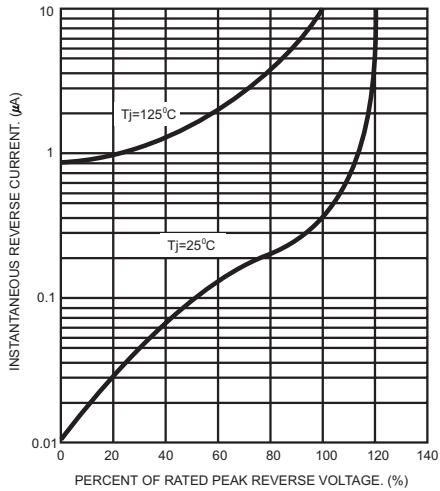


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

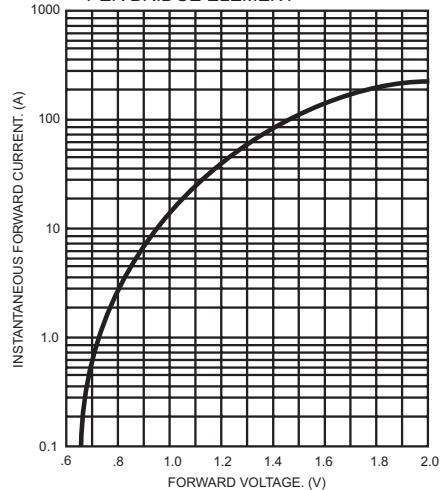


FIG.5- TYPICAL TRANSIENT THERMAL IMPEDANCE

