





## **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>
- Isolated voltage from case to lead over 2500 volts

# **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.

## **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%

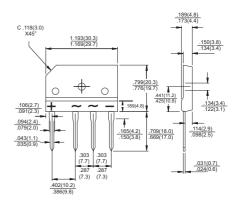
Type Number	Symbol	TS20P 01G	TS20P 02G	TS20P 03G	TS20P 04G	TS20P 05G	TS20P 06G	TS20P 07G	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1	I <sub>(AV)</sub>	20.0							А
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 @ 10A @ 20A	V <sub>F</sub>	1.0 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>	10 500						uA uA	
Typical Thermal resistance (Note)	R <sub>θJC</sub>	0.8							°C/W
Operating Temperature Range	TJ	-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.

# TS20P01G - TS20P07G

Single Phase 20.0 AMPS. Glass Passivated Bridge Rectifiers

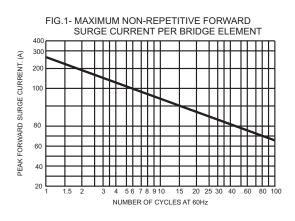
<u>TS-6P</u>

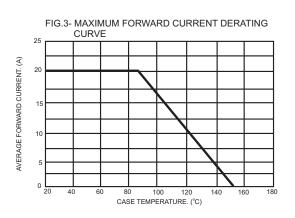


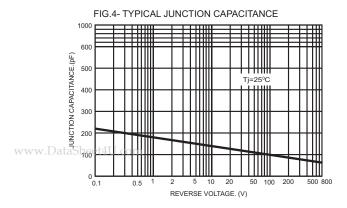
### Dimensions in inches and (millimeters)



#### RATINGS AND CHARACTERISTIC CURVES (TS20P01G THRU TS20P07G)







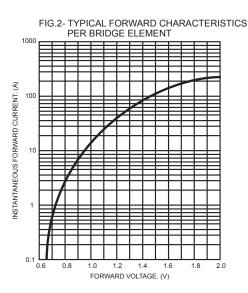


FIG.5- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

