





## **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

# 1.183(3.0) X45 1.193(30.3) 1.165(29.7) 1.165(29.7) 1.193(3.0.3) 1.165(29.7) 1.193(3.0.3) 1.165(29.7) 1.193(3.0.3) 1.165(2.3.1) 1.193(3.0.3) 1.165(2.3.1) 1.193(3.0.3.1) 1.193(3.

TS20P01G - TS20P07G

Glass Passivated Bridge Rectifiers
TS-6P

Single Phase 20.0 AMPS.

### **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.

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	TS20P 01G	TS20P 02G	TS20P 03G	TS20P 04G	TS20P 05G	TS20P 06G	TS20P 07G	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1	I <sub>(AV)</sub>	20.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	250							Α
Maximum Instantaneous Forward Voltage @ 10A @ 20A	V <sub>F</sub>	1.0 1.1							V
Maximum DC Reverse Current @ $T_A$ =25 °C at Rated DC Blocking Voltage @ $T_A$ =125 °C	I <sub>R</sub>	10 500							uA uA
Typical Thermal resistance (Note)	$R_{\theta JC}$	0.8							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	$T_{STG}$	-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)









