

## **GP1001** THRU **GP1007**

10.0 AMPS. Glass Passivated Rectifiers



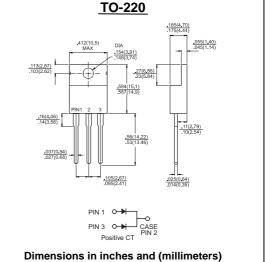
Voltage Range 50 to 1000 Volts Current 10.0 Amperes

## **Features**

- ♦ Low forward voltage drop
- ♦ High current capability
- ♦ High reliability
- High surge current capability

## **Mechanical Data**

- ♦ Cases: TO-220 molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Terminals: Leads solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: As marked
- High temperature soldering guaranteed: 260°C/10 seconds .16",(4.06mm) from case.
- ♦ Weight: 2.24 grams



## **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		GP	GP	GP	GP	GP	GP	Units
		1001	1002	1003	1004	1005	1006	1007	
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 .375"(9.5mm) Lead Length @T <sub>C</sub> = 100°C	I <sub>(AV)</sub>	10.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	125							Α
Maximum Instantaneous Forward Voltage @5.0A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current @ T <sub>c</sub> =25°C at Rated DC Blocking Voltage	I <sub>R</sub>	5.0							uA
Typical Junction Capacitance (Note 1)	Cj	30							pF
Typical Thermal Resistance (Note 2)	$R\theta_{JC}$	3.0							°C\W
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	- 65 to + 150							$^{\circ}$

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

2. Thermal Resistance from Junction to Case Mounted on Heatsink size 2" x 3" x 0.25" Al-Plate



