

GP1001 - GP1007



10.0 AMPS. Glass Passivated Rectifiers **TO-220AB**



Features

- ♦ Glass passivated chip junction.
- ♦ High efficiency, Low VF
- High current capability
- ♦ High reliability
- High surge current capability
- ♦ Low power loss

Mechanical Data

- ♦ Cases: TO-220AB molded plastic
- \diamond Epoxy: UL 94V-0 rate flame retardant
- Terminals: Pure tin plated, lead free. 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

.113(2.87) .103(2.62) .113(2.87) .103(2.62) .113(2.87) .103(2.62)

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	GP 1001	GP 1002	GP 1003	GP 1004	GP 1005	GP 1006	GP 1007	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 .375"(9.5mm) Lead Length @T _C = 100 °C	I _(AV)	10.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	125							Α
Maximum Instantaneous Forward Voltage @5.0A	V _F	1.1							V
Maximum DC Reverse Current @ T_c =25 $^{\circ}$ C at Rated DC Blocking Voltage @ T_c =125 $^{\circ}$ C	I _R	5.0 200							uA uA
Typical Junction Capacitance (Note 1)	Cj	30							рF
Typical Thermal Resistance (Note 2)	R ₀ JC	3.0							°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}	- 65 to + 150							°C

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.

Version: A06



RATINGS AND CHARACTERISTIC CURVES (GP1001 THRU GP1007)









