

GP1601 THRU **GP1607**

16.0 AMPS. Glass Passivated Rectifiers



Voltage Range 50 to 1000 Volts Current 16.0 Amperes

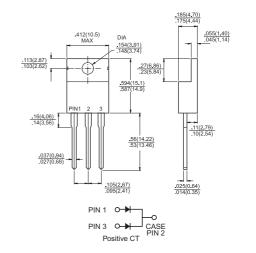
TO-220

Features

- 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: 250°C/10 seconds .16",(4.06mm) from case.
- ♦ Weight: 2.24 grams



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	GP	GP	GP	GP	GP	GP	GP	Units
	1601	1602	1603	1604	1605	1606	1607	
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 .375"(9.5mm) Lead Length @T _C = 100°C	16.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	150							А
Maximum Instantaneous Forward Voltage @8.0A	1.1							V
Maximum DC Reverse Current @ T _C =25°C	10							uA
at Rated DC Blocking Voltage @ T _C =125°C		250						
Typical Junction Capacitance (Note 1)	50							pF
Typical Thermal Resistance RθJC (Note 2)	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 per Leg Mounted on Heatsink.



RATINGS AND CHARACTERISTIC CURVES (GP1601 THRU GP1607)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

18

(V)

14

Single Phase Half Wave 60Hz Resistive or Inductive Load

10

CASE TEMPERATURE. (°C)

