TSC 9b

GP1601 THRU **GP1607**

16.0 AMPS. Glass Passivated Rectifiers



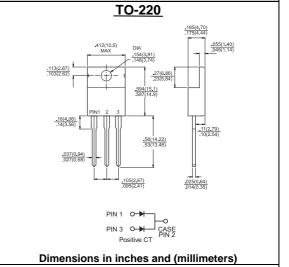
Voltage Range 50 to 1000 Volts Current 16.0 Amperes

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
- ♦ 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%

For capacitive load, defate current by 20 %									
Type Number	Symbol	GP 1601	GP 1602	GP 1603	GP 1604	GP 1605	GP 1606	GP 1607	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 $@T_C = 100^{\circ}C$	I _(AV)	16.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							Α
Maximum Instantaneous Forward Voltage @8.0A	V _F	1.1							V
Maximum DC Reverse Current @ T _C =25℃	I_	10							uA
at Rated DC Blocking Voltage @ T _c =125℃	I _R	250							uA
Typical Junction Capacitance (Note 1)	Cj	50							pF
Typical Thermal Resistance (Note 2)	$R\theta_{JC}$	1.5							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



