

GP1601 - GP1607

16.0 AMPS. Glass Passivated Rectifiers

TO-220AB

RoHS COMPLIANCE



Features

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

Mechanical Data

- ♦ Cases: TO-220AB molded plastic
- ♦ 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

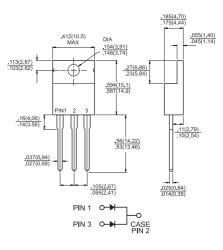
Maximum Ratings and Electrical Characteristics

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 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 °C	I _(AV)	16.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							А
Maximum Instantaneous Forward Voltage @8.0A	V _F	1.1							V
Maximum DC Reverse Current @ T _c =25 °C at Rated DC Blocking Voltage @ T _c =125 °C	I _R	10 250							uA uA
Typical Junction Capacitance (Note 1)	Cj	50							pF
Typical Thermal Resistance (Note 2)	R _{θJC}	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.



Dimensions in inches and (millimeters)



RATINGS AND CHARACTERISTIC CURVES (GP1601 THRU GP1607)

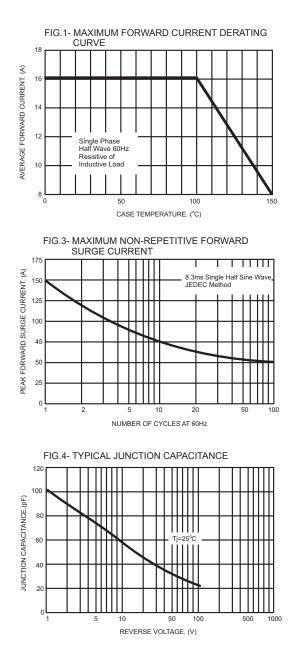
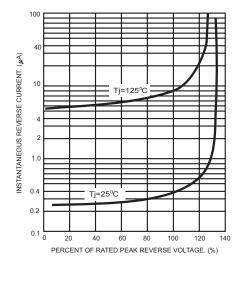
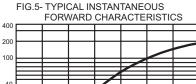
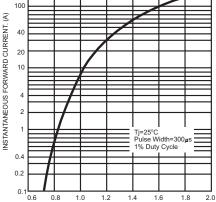


FIG.2- TYPICAL REVERSE CHARACTERISTICS







FORWARD VOLTAGE. (V)