





Features

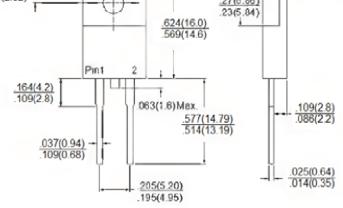
- Glass passivated chip junction
- \diamond High efficiency, Low VF
- High current capability
- High reliability
- High surge current capability
- \diamond Low power loss
- Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- Cases: TO-220AC Molded plastic
- Epoxy: UL 94V-0 rate flame retardant \diamondsuit
- Lead: 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

TO-220AC .412(10.5) DIA 172(4.42) Max 156(4.0) 138(3.54) .055(1.40) .135(3.44) 27(6.86) .23(5.84)

16.0 AMPS. Glass Passivated Rectifiers



PIN 1

SGYWW GPA160X

PIN 2 O-N

Dimensions in inches and (millimeters)

Marking Diagram

J CASE

GPA160X = Specific Device Code G = Green Compound

Υ = Year WW



GPA1601 - GPA1607

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	GPA 1601	GPA 1602	GPA 1603	GPA 1604	GPA 1605	GPA 1606	GPA 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	I _{F(AV)}	16							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	250							Α
Maximum Instantaneous Forward Voltage (Note 1) @ 16 A	V _F	1.1							V
	I _R	10 250						uA	
Typical Junction Capacitance (Note 2)	Cj	100						pF	
Typical Thermal Resistance	$R_{\theta JC}$	2.0							°C/W
Operating Temperature Range	T_J	- 65 to + 150							оС
Storage Temperature Range	T _{STG}	- 65 to + 150							оС

Note1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note2: Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.



RATINGS AND CHARACTERISTIC CURVES (GPA1601 THRU GPA1607)

