





#### **Features**

- ♦ UL Recognized File # E-326243
- ♦ Glass passivated chip junction.
- ♦ High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- High surge current capability
- ♦ Low power loss
- ♦ Green compound with suffix "G" on packing code & prefix "G" on datecode.

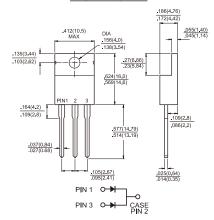
#### **Mechanical Data**

- ♦ 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

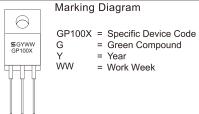
# GP1001 - GP1007

10.0 AMPS. Glass Passivated Rectifiers

### **TO-220AB**



#### 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	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward RectifiedCurrent 375"(9.5mm) Lead Length @T <sub>C</sub> = 100 °C	<b>I</b> F(AV)	10.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	<b>I</b> FSM	125							А
Maximum Instantaneous Forward Voltage @5.0A	VF	1.1							V
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	<b>I</b> R	5.0 200						uA uA	
Typical Junction Capacitance ( Note 3 )	Cj	30						pF	
Typical Thermal Resistance ( Note 2 )	Rejc	3.0						°C/W	
Operating and Storage Temperature Range	Тл ,Тѕтс	- 65 to + 150							°C

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

- 2. Mounted on Heatsink size 2" x 3" x 0.25" Al-Plate.
- 3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

Version: D10



#### RATINGS AND CHARACTERISTIC CURVES (GP1001 THRU GP1007)

