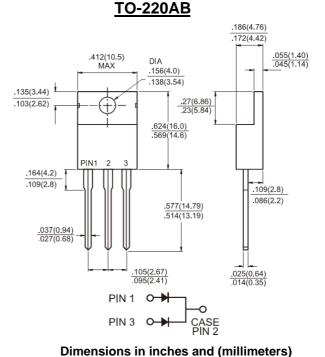


GP1001 - GP1007 10.0 AMPS. Glass Passivated Rectifiers



Features

- ♦ 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



Marking Diagram

= Year

GP100X = Specific Device Code

= Work Week

= Green Compound

0

SGYWW GP100X G

Y

WW

Mechanical Data

- ♦ Cases: TO-220AB Molded plastic
- $\diamond\quad \text{Epoxy: UL 94V-0 rate flame retardant}$
- 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

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%

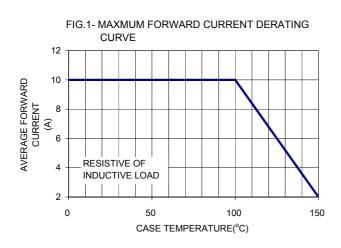
Type Number	Symbol	GP 1001	GP 1002	GP 1003	GP 1004	GP 1005	GP 1006	GP 1007	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	10							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	125						А	
Maximum Instantaneous Forward Voltage (Note 1) @ 5 A	V _F	1.1							V
Maximum DC Reverse Current at@ $T_A=25 \degree C$ Rated DC Blocking Voltage@ $T_A=125\degree C$	I _R	5 200							uA
Typical Junction Capacitance (Note 2)	Cj	30							pF
Typical Thermal Resistance	$R_{ extsf{ heta}JC}$	3							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150							°C

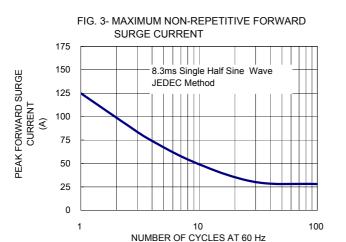
Note1: Pulse Test with PW=300 usec, 1% Duty Cycle

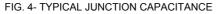
Note2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

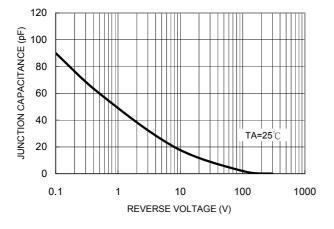


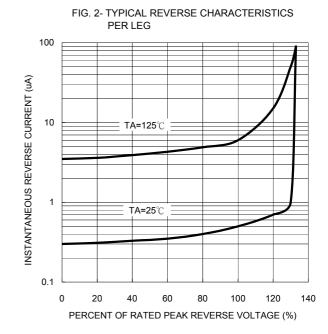
RATINGS AND CHARACTERISTIC CURVES (GP1001 THRU GP1007)

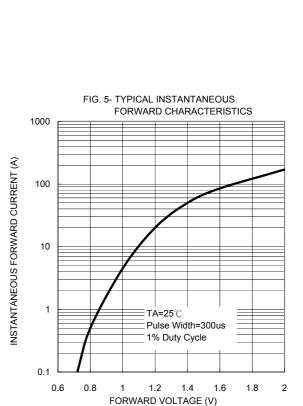












Version:E11