





Features

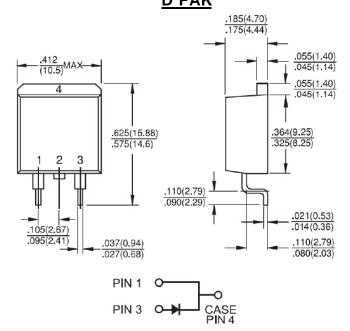
- ♦ Glass passivated chip junction
- ♦ High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- ♦ High surge current capability
- ♦ Low power loss
- Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- ♦ 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 at terminals
- ♦ Weight: 1.7 grams

GPAS1001 - GPAS1007

10.0 AMPS. Glass Passivated Rectifiers <u>D²PAK</u>



Dimensions in inches and (millimeters)

Marking Diagram GPAS100X = Specific Device Code G = Green Compound Y = Year WW = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}\mathrm{C}$ 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	GPAS 1001	GPAS 1002	GPAS 1003	GPAS 1004	GPAS 1005	GPAS 1006	GPAS 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	I _{F(AV)}	10						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 (Note 1) @ 10 A	V_{F}	1.1						V	
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Typical Junction Capacitance (Note 2)	Cj	50						pF	
Typical Thermal Resistance	$R_{\theta JA}$	2.5						°C/W	
Operating Temperature Range	T_J	- 65 to + 150						οС	
Storage Temperature Range	T_{STG}	- 65 to + 150						οС	

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 (GPAS1001 THRU GPAS1007)

