







Features

- ♦ Glass passivated chip junction
- ♦ High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- High surge current capability
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application
- Green compound with suffix "G" on packing code & prefix "G" on datecode

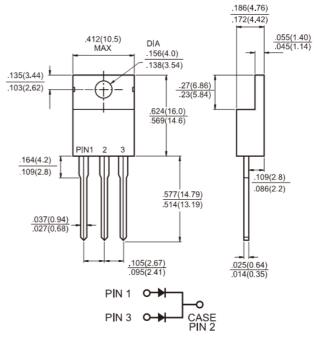
Mechanical Data

- ♦ Case: TO-220AB Molded plastic
- Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: As marked
- → High temperature soldering guaranteed: 260°C/10s/.16", (4.06mm) from case
- ♦ Weight: 2.24 grams

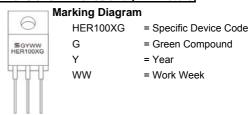
HER1001G - HER1008G

10.0AMPS. Glass Passivated High Efficient Rectifiers

TO-220AB



Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

For capacitive load, derate current by 20%

Type Number	Symbol	HER 1001G	HER 1002G	HER 1003G	HER 1004G	HER 1005G	HER 1006G	HER 1007G	HER 1008G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	10								Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	125								Α
Maximum Instantaneous Forward Voltage (Note 1) @ 5 A	V _F	1.0 1.3				1.7		V		
Maximum DC Reverse Current @ T _A =25 ℃	10								uA	
at Rated DC Blocking Voltage @ T _A =125 °C	I _R	400								uA
Maximum Reverse Recovery Time (Note 2)	Trr	50				80			nS	
Typical Junction Capacitance (Note 3)	Cj	60				40		pF		
Typical Thermal Resistance	$R_{\theta JC}$	1.5						°C/W		
Operating Temperature Range	TJ	- 65 to + 150						°С		
Storage Temperature Range	T _{STG}	- 65 to + 150							οС	

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

Note 2: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Version:E11



RATINGS AND CHARACTERISTIC CURVES (HER1001G THRU HER1008G)

