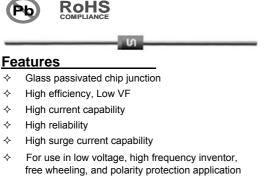
# **HER601G - HER608G**



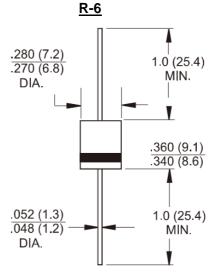
### 6.0AMPS Glass Passivated High Efficient Rectifiers



 Green compound with suffix "G" on packing code & prefix "G" on datecode

#### **Mechanical Data**

- ♦ Case: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- ♦ Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode
- ♦ High temperature soldering guaranteed: 260°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension
- ♦ Mounting position: Any
- ♦ Weight: 1.65 grams



## Dimensions in inches and (millimeters)

Π	Marking Diagram						
	HER60XG	= Specific Device Code					
	G	= Green Compound					
	Y	= Year					
HER60XG SGYWW	WW	= Work Week					
$\square$							

## **Maximum Ratings and Electrical Characteristics**

Rating at 25  $^\circ\!\mathbb{C}$  ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number		HER 601G	HER 602G	HER 603G	HER 604G	HER 605G	HER 606G	HER 607G	HER 608G	Units
Maximum Recurrent Peak Reverse Voltage		50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @ $T_A$ =55 $^{\circ}$ C		6								A
Peak Forward Surge Current, 8.3 ms Single Half Sine- wave Superimposed on Rated Load (JEDEC method)		150								A
Maximum Instantaneous Forward Voltage (Note 1) @ 6 A		1.0 1.3 1.7						V		
Maximum DC Reverse Current@ $T_A=25 \degree$ Cat Rated DC Blocking Voltage@ $T_A=125 \degree$ C		10 200								uA uA
Maximum Reverse Recovery Time (Note 2)		50 75							nS	
Typical Junction Capacitance (Note 3)		80 65						рF		
Typical Thermal Resistance (Note 4)		37								<sup>o</sup> C/W
Operating Temperature Range		- 65 to + 150								°C
Storage Temperature Range		- 65 to + 150								°C
	*									

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

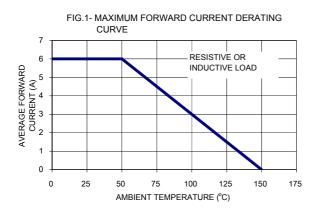
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Note 4: Mount on Cu-Pad Size 16mm x 16mm on PCB

Version:C10



## RATINGS AND CHARACTERISTIC CURVES (HER601G THRU HER608G)



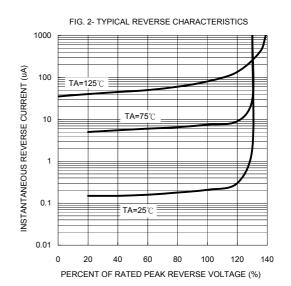
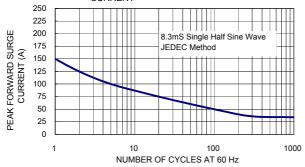


FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



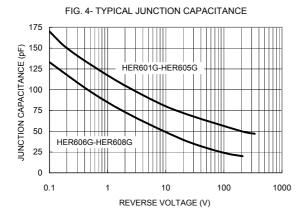
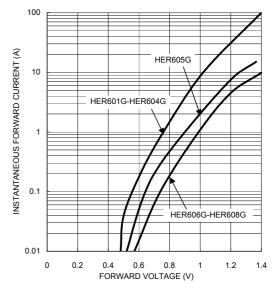


FIG. 5- TYPICAL FORWARD CHARACTERISRICS



#### FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

