







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

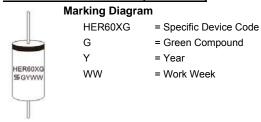
Mechanical Data

- ♦ Case: Molded plastic
- 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: AnyWeight: 1.65 grams

R-6 .280 (7.2) .270 (6.8) DIA. .360 (9.1) .340 (8.6) .052 (1.3) .048 (1.2) DIA. .1.0 (25.4) MIN. .1.0 (25.4) MIN.

6.0AMPS Glass Passivated High Efficient Rectifiers

Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

For capacitive load, derate current by 20%

Type Number	Symbol	HER 601G	HER 602G	HER 603G	HER 604G	HER 605G	HER 606G	HER 607G	HER 608G	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 .375 (9.5mm) Lead Length @ T_A =55 $^{\circ}$ C	I _{F(AV)}	6								Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150								Α
Maximum Instantaneous Forward Voltage (Note 1) @ 6 A	V _F	1.0 1.3					1.7		V	
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	I _R	10 200							uA uA	
Maximum Reverse Recovery Time (Note 2)	Trr	50					75		nS	
Typical Junction Capacitance (Note 3)	Cj	80					65		pF	
Typical Thermal Resistance (Note 4)	$R_{\theta JA}$	37							°C/W	
Operating Temperature Range	TJ	- 65 to + 150							οС	
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.

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



RATINGS AND CHARACTERISTIC CURVES (HER601G THRU HER608G)

