

HER601G thru HER608G

Glass Passivated High Efficient Rectifiers Reverse Voltage 50 to 1000 Volts Forward Current 6.0 Amperes

Features

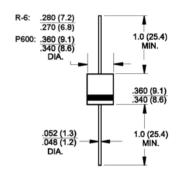
- ◆ Low forward voltage drop
- ♦ High current capability
- High reliability
- ◆ High surge current capability



R-6 or P600

Mechanical Data

- ◆ Case: Molded plastic R-6
- ◆ Epoxy: UL 94V-O rate flame retardant
- ◆ Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- ◆ Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 250°C/10 seconds .375" (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ◆ Mounting position: Any
- ♦ Weight: 0.074 ounce, 2.1 grams



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

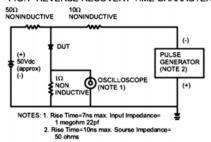
Parameter	Symbols	HER 601G	HER 602G	HER 603G	HER 604G	HER 605G	HER 606G	HER 607G	HER 608G	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum average forward rectified current .375" (9.5mm) lead length @T _A =55°C	I _{F(AV)}	6.0							Amps	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250.0							Amps	
Maximum instantaneous forward voltage @ 6.0A	V _F	1.0 1.3 1.7						Volts		
	I _R	10.0 200							uA uA	
Maximum reverse recovery time (Note 1)	t _{rr}	50 75						nS		
Typical junction capacitance (Note 2)	C _J	100 65						pF		
Operating junction temperature range	T	-55 to +150							°C	
Storage temperature range	T _{STG}	-55 to +150								°C

Notes: 1. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$

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

RATINGS AND CHARACTERISTIC CURVES

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



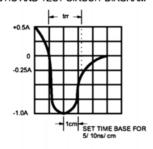


FIG.3- TYPICAL REVERSE CHARACTERISTICS

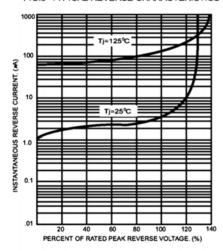


FIG.4- TYPICAL FORWARD CHARACTERISTICS

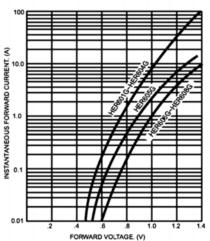


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

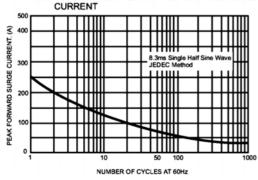


FIG.6- TYPICAL JUNCTION CAPACITANCE

