

## HER301G thru HER308G

# HIGH EFFICIENCY GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 3.0 Amperes

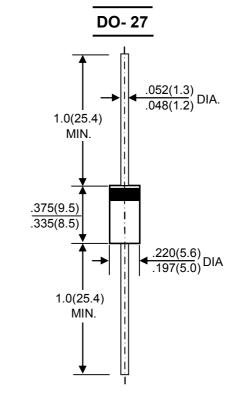
#### **FEATURES**

- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

### **MECHANICAL DATA**

Case: JEDEC DO-27 molded plastic
Polarity: Color band denotes cathode
Weight: 0.04ounces, 1.1grams

•Mounting position: Any



Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	HER 301G	HER 302G	HER 303G	HER 304G	HER 305G	HER 306G	HER 307G	HER 308G	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	V
Maximum Average Forward  Rectified Current @TA =55 ℃	I(AV)	3.0								Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	150								А
Peak Forward Voltage at 3.0A DC	VF	1.0 1.3				.3	1.7			V
Maximum DC Reverse Current       @TJ=25℃         at Rated DC Blocking Voltage       @TJ=100℃	lR	5.0 100							μA	
Maximum Reverse Recovery Time(Note 1)	Trr	50 75							nS	
Typical Junction Capacitance (Note2)	Сл	50 30						pF		
Typical Thermal Resistance (Note3)	Rөja	20							°C/W	
Operating Temperature Range	TJ	-55 to +150								°C
Storage Temperature Range	Tstg	-55 to +150							°C	
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NOTES: 1.Measured with IF=0.5A, IR=1A, IRR=0.25A

- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
- 3. Thermal resistance junction to ambient



