

# HER301G THRU HER308G

# HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

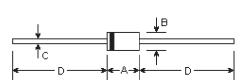
DO-201AD

Reverse Voltage - 50 to 1000 Volts

Forward Current - 3.0 Amperes

## Features

- Low power loss, high efficiency
- Low leakage
- Low forward voltage drop
- High current capability
- High speed switching
- High reliability
- High current surge



#### **Mechanical Data**

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: MIL-STD-202E method 208C guaranteed
- Mounting Position: Any
- Weight: 0.042 ounce, 1.195 grams

DIMENSIONS										
DIM	inches		m	Note						
	Min.	Max.	Min.	Max.	Note					
А	0.283	0.374	7.20	9.50						
В	0.189	0.208	4.80	5.30	ф					
С	0.048	0.051	1.20	1.30	ф					
D	1.000	-	25.40	-						

# **Maximum Ratings and Electrical Characteristics**

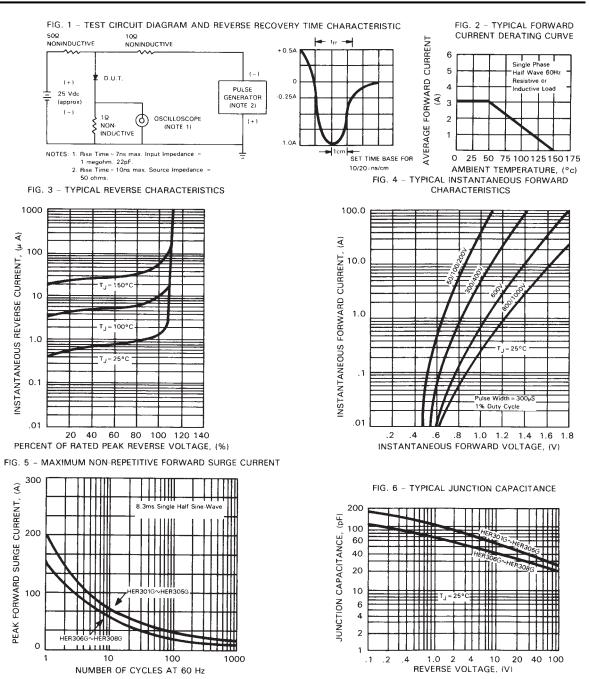
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	HER 301G	HER 302G	HER 303G	HER 304G	HER 305G	HER 306G	HER 307G	HER 308G	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	300	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	210	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	300	400	600	800	1000	Volts
aximum average forward rectified current $I_{(AV)}$ 3.0 3.0							Amps			
Peak forward surge current, 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I <sub>FSM</sub>	200.0 150.0							Amps	
Maximum instantaneous forward voltage at 3.0A DC	V <sub>F</sub>	1.0 1.3 1.5				1.5	1.7		Volts	
Maximum full load reverse current average, full cycle 0.375" (9.5mm) lead length at $\rm T_L=55^\circ C$	I <sub>R(AV)</sub>	150.0							р Ц	
Maximum DC reverse current $T_A$ =25 °C at rated DC blocking voltage	I <sub>R</sub>	10.0								р Ц
Maximum reverse recovery time (Note 1)	T <sub>rr</sub>	50.0 75.0							nS	
Typical junction capacitance (Note 2)	C	70 50						ρF		
Operating and storage temperature range	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150							°C	

Notes:

(1) Test conditions:  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $I_{rr}=0.25A$ 

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts



## **RATINGS AND CHARACTERISTIC CURVES**