

HER201G THRU HER208G

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 2.0 Amperes

Features

• Low power loss, high efficiency

Low leakage

Low forward voltage drop

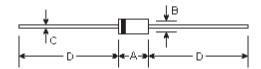
High current capability

• High speed switching

High current surge

High reliability

DO-15



Mechanical Data

• Case: Molded plastic

• Epoxy: UL94V-0 rate flame retardant

• Lead: MIL-STD-202E method 208C guaranteed

• Mounting Position: Any

• Weight: 0.014 ounce, 0.395 gram

DIMENSIONS										
DIM	incl	nes	m	Note						
	Min.	Max.	Min.	Max.	Note					
Α	0.228	0.299	5.8	7.6						
В	0.102	0.142	2.6	3.6	ф					
С	0.028	0.034	0.71	0.86	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 201G	HER 202G	HER 203G	HER 204G	HER 205G	HER 206G	HER 207G	HER 208G	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
aximum average forward rectified current 375" (9.5mm) lead length at T_A =50 $^{\circ}$ C $I_{(AV)}$ 2.0						Amps				
Peak forward surge current, 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method) I _{FSM} 60.0							Amps			
Maximum instantaneous forward voltage at 2.0A DC	V _F	1.0 1.3 1.5 1.7				.7	Volts			
Maximum full load reverse current average, full cycle 0.375" (9.5mm) lead length at T_=55 $^\circ\!$	I _{R(AV)}	100.0							μА	
Maximum DC reverse current at rated DC blocking voltage $$\rm T_{_A}\mbox{=}25^{\circ}C$$	I _R	5.0							μА	
Maximum reverse recovery time (Note 1)	T _{rr}	50.0 75.0							nS	
Typical junction capacitance (Note 2)	C	30 20							ρF	
Operating and storage temperature range	T _J , T _{STG}	-65 to +150							$^{\circ}$	

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

