

HER201 THRU HER208

HIGH EFFICIENCY RECTIFIER
Reverse Voltage - 50 to 1000 Volts
Forward Current - 2.0 Amperes

Features

• Low power loss, high efficiency

Low leakage

Low forward voltage drop

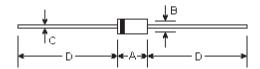
High current capability

• 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, 0.39 gram

DIMENSIONS										
DIM	inches		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	1	25.40	-						

Maximum Ratings and Electrical Characteristics

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

For capacitive load, derate current by 20%.

	Symbols	HER 201	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207	HER 208	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			
ak forward surge current, 2mS single half sine-wave superimposed 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	Volts		
Maximum full load reverse current average, full cycle 0.375" (9.5mm) lead length at $\rm \ T_L = 55 ^{\circ}C$	I _{R(AV)}	100.0								μА
Maximum DC reverse current at rated DC blocking voltage $${\rm T_A}$=25^{\circ}{\rm C}$$	I _R	5.0							μА	
Maximum reverse recovery time (Note 1)	T _m	50 75							nS	
Typical junction capacitance (Note 2)	C	30 20						ρF		
Operating and storage temperature range	T _J , T _{STG}	-65 to +150							$^{\circ}$ 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

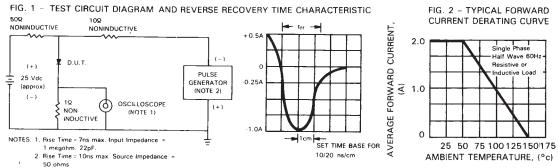


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

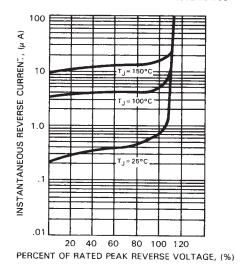


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

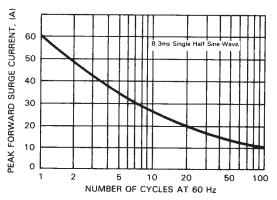


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

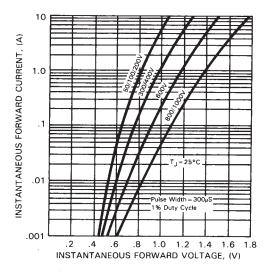


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

