

# **HER101G THRU HER108G**

Reverse Voltage - 50 to 1000 Volts
Forward Current - 1.0 Ampere

### **Features**

Low power loss, high efficiency

Low leakage

Low forward voltage

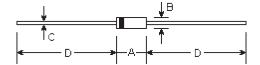
High current capability

High speed switching

High surge capability

High reliability

DO-41



## **Mechanical Data**

• Case: Molded plastic

• Epoxy: UL94V-0 rate flame retardant

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

• Mounting Position: Any

• Weight: 0.012 ounce, 0.335 gram

DIMENSIONS										
DIM	incl	nes	m	Note						
	Min.	Max.	Min.	Max.	Note					
Α	0.165	0.205	4.2	5.2						
В	0.079	0.106	2.0	2.7	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 101G	HER 102G	HER 103G	HER 104G	HER 105G	HER 106G	HER 107G	HER 108G	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
Maximum average forward rectified current 0.375" (9.5mm) lead length at $\rm T_A$ =50 $^{\circ}\rm C$	imum average forward rectified current 5" (9.5mm) lead length at $T_A$ =50 $^{\circ}$ C $I_{(AV)}$ 1.0							Amp		
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	onward surge current single half sine-wave superimposed I SESM 30.0 d load (MIL-STD-750D 4066 method)						Amps			
Maximum instantaneous forward voltage at 1.0A DC	V <sub>F</sub>	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 $\rm T_L = 55^\circ C$	I <sub>R(AV)</sub>	100.0								μА
Maximum DC reverse current at rated DC blocking voltage $$\rm T_{\rm A} = 25^{\circ}C$$	I <sub>R</sub>	5.0							μА	
Typical reverse recovery time (Note 1)	T <sub>rr</sub>	50.0 75.0							nS	
Typical junction capacitance (Note 2)	C <sup>1</sup>	15 12							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

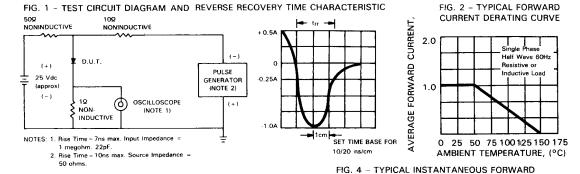


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

