

# HER501G THRU HER508G

## HIGH EFFICIENCY PLASTIC RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 5.0A

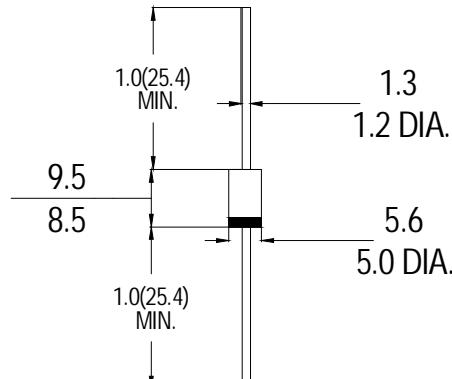
### FEATURES

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

### MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any
- **Weight:** 1.20 grams

### DO-27



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRONICAL 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%.

	SYMBOL	HER 501G	HER 502G	HER 503G	HER 504G	HER 505G	HER 506G	HER 507G	HER 508G	units				
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	300	400	600	800	1000	<b>V</b>				
Maximum RMS Voltage	$V_{RMS}$	35	70	140	210	280	420	560	700	<b>V</b>				
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	300	400	600	800	1000	<b>V</b>				
Maximum Average Forward rectified Current at $T_A=50^\circ C$	$I_o$	5.0								<b>A</b>				
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	150								<b>A</b>				
Maximum Instantaneous forward Voltage at 5.0A DC	$V_F$	1.0		1.3		1.7		<b>V</b>						
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=25^\circ C$	$I_R$	10								$\mu A$				
Maximum Full Load Reverse Current Full Cycle Average,.375"(9.5mm) lead length at $T_L=55^\circ C$		150												
Maximum Reverse Recovery Time (Note 1)	$t_{rr}$	50				75				<b>ns</b>				
Typical Junction Capacitance (Note 2)	$C_J$	30				20				<b>pF</b>				

Notes: 1.Test Conditions:  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $I_{RR}=0.25A$ 

2.Measured at 1MHz and applied reverse voltage of 4.0 volts