CHONGQING PINGYANG ELECTRONICS CO.,LTD.

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 1.0(25.4) 1.3 1.2 DIA. 9.5 5.6 5.0 DIA. 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	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward rectified Current at $T_A=50^{\circ}C$	Ιo	5.0								Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	150								A
Maximum Instantaneous forward Voltage at 5.0A DC	V _F	1.0 1.3				1.7		v		
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=25^{\circ}C$	10									μA
Maximum Full Load Reverse Current Full Cycle Average,.375"(9.5mm) lead length at T _L =55°C	·ĸ	150								P17 1
Maximum Reverse Recovery Time (Note 1)	t _{rr}	50					75			nS
Typical Junction Capacitance (Note 2)	C	30 2				20		pF		

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