HER801 THRU HER806

HIGH EFFICIENCY PLASTIC RECTIFIER

VOLTAGE: 50-600V

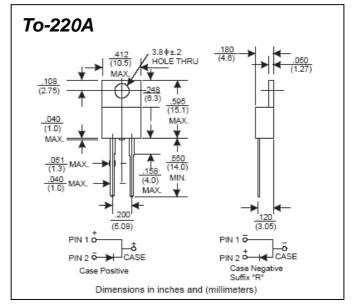
CURRENT: 8.0A

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: 2.24 grams



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 801	HER 802	HER 803	HER 804	HER 805	HER 806	units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	V
Maximum Average Forward rectified Current at $T_A=50^{\circ}C$	I _o	8.0						Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	180						A
Maximum Instantaneous forward Voltage at 6.0A DC	V _F		1.0 1.3		1.85	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	чк Ч	150						
Maximum Reverse Recovery Time (Note 1)	t _{rr}	60				100	nS	
Typical Junction Capacitance (Note 2)	CJ	30				20	pF	
							20	

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