

HER1601 THRU HER1606

HIGH EFFICIENCY PLASTIC RECTIFIER

VOLTAGE: 50-600V

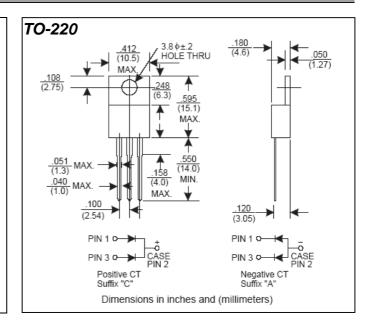
CURRENT: 16.0A

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: AnyWeight: 2.24 grams



MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	SYMBOL	HER 1601	HER 1602	HER 1603	HER 1604	HER 1605	HER 1606	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	٧
Maximum Average Forward rectified Current at T _A =50°C	I _o	16.0						Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		200						Α
Maximum Instantaneous forward Voltage at 8.0A DC	V _F	1.0		1	.3	1.85	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =25°C	I _R 10							μΑ
Maximum Full Load Reverse Current Full Cycle Average, .375" (9.5mm) lead length at T _L =55°C	- "	150						F '
Maximum Reverse Recovery Time (Note 1)	t _{rr}	60				100	nS	
Typical Junction Capacitance (Note 2)	CJ	30				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