

HER1601 THRU HER1606

HIGH EFFICIENCY PLASTIC RECTIFIER

VOLTAGE: 50-600V

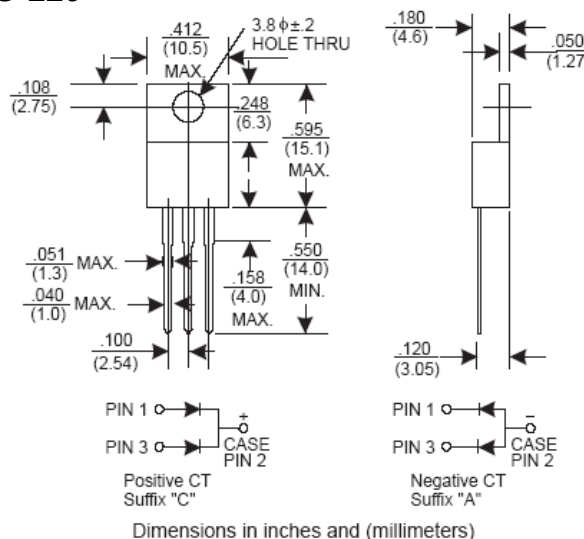
CURRENT: 16.0A

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:** Any
- **Weight:** 2.24 grams

TO-220

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%.

	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	V
Maximum Average Forward rectified Current at T _A =50°C	I_o	16.0						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	200						A
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						μA
Maximum Full Load Reverse Current Full Cycle Average,.375"(9.5mm) lead length at T _L =55°C		150						
Maximum Reverse Recovery Time (Note 1)	t_{rr}	60					100	nS
Typical Junction Capacitance (Note 2)	C_J	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