

# HER801 THRU HER805

### HIGH EFFICIENCY RECTIFIER

## **VOLTAGE RANGE 50 to 400 Volts CURRENT 8.0 Amperes**

#### **FEATURES**

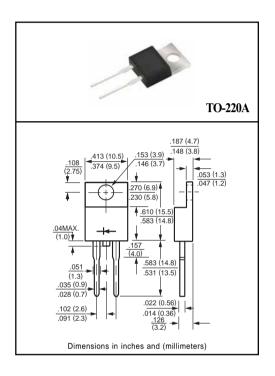
- \* Low switching noise
- \* Low forward voltage drop
- \* Low thermal resistance
- \* High current capability
- \* High fast switching capability
- \* High surge capability

#### **MECHANICAL DATA**

- \* Case: TO-220A molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any \* Weight: 2.24 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



#### MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	HER801	HER802	HER803	HER804	HER805	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	Volts
Maximum RMS Voltage	VRMS	35	70	140	210	280	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	Volts
Maximum Average Forward Rectified Current at Tc = 75°C	Ю		Amps				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM		Amps				
Typical Thermal Resistance	RθJC		°C/W				
Typical Junction Capacitance (Note 2)	CJ		pF				
Operating and Storage Temperature Range	TJ, TSTG		۰c				

#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

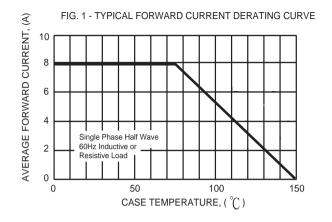
CHARACTERISTICS		SYMBOL	HER801	HER802	HER803	HER804	HER805	UNITS
Maximum Instantaneous Forward Voltage at 8.0/	aximum Instantaneous Forward Voltage at 8.0A DC		1.0			1.3		Volts
Maximum DC Reverse Current	@Tc = 25°C		10 150					uAmps
at Rated DC Blocking Voltage	@Tc = 100°C	lR IR						
Maximum Reverse Recovery Time (Note 1)		trr	50					nSec

NOTES: 1. Test Conditions: IF = 0.5A, IR = -1.0A, IRR =- 0.25A

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. Suffix "R" for Reverse Polarity.

2003-1

## RATING AND CHARACTERISTIC CURVES (HER801 THRU HER805)





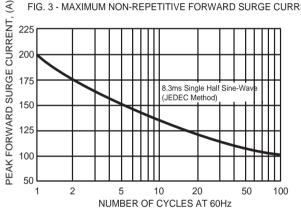


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

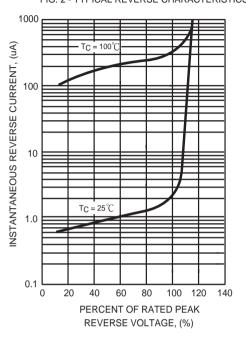


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

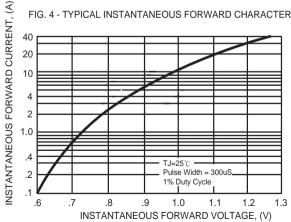
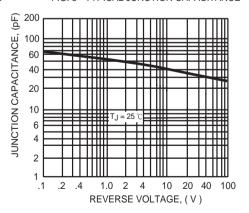


FIG. 5 - TYPICAL JUNCTION CAPACITANCE





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