



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

**HER801
THRU
HER805**

TECHNICAL SPECIFICATIONS OF 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

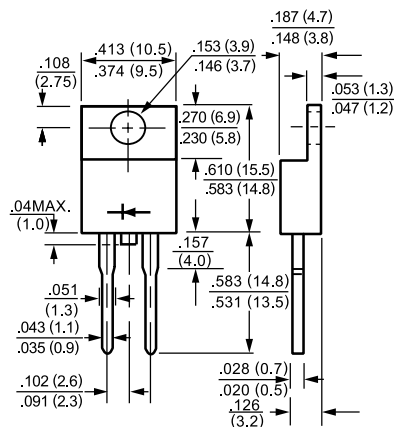
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 2.24 grams

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%.



TO-220A



Dimensions in inches and (millimeters)

		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	400	300	Volts
Maximum Average Forward Rectified Current at Tc = 75°C		IO	8.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	300					Amps
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.1					Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@Tc = 25°C	IR	10					uAmps
	@Tc = 100°C		150					
Maximum Reverse Recovery Time (Note 1)		trr	60					nSec
Typical Thermal Resistance		RθJ C	2.5					°C/W
Typical Junction Capacitance (Note 2)		CJ	40					pF
Operating and Storage Temperature Range		TJ, TSTG	-65 to + 150					°C

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.

RATING AND CHARACTERISTIC CURVES (HER801 THRU HER805)

FIG. 1 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

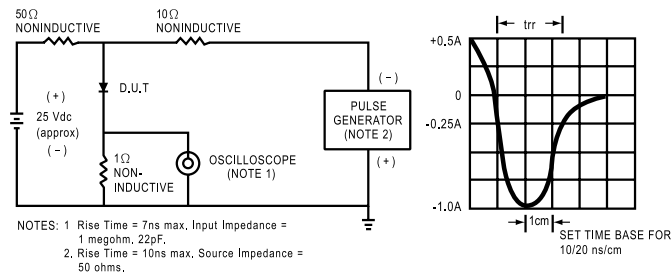


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

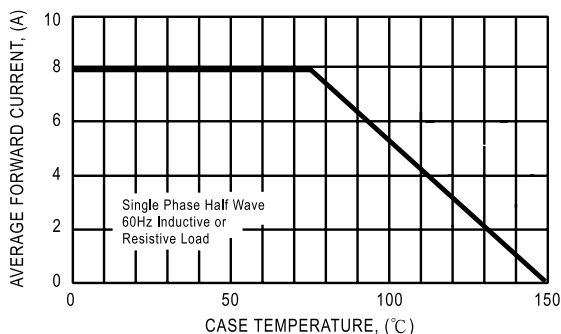


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

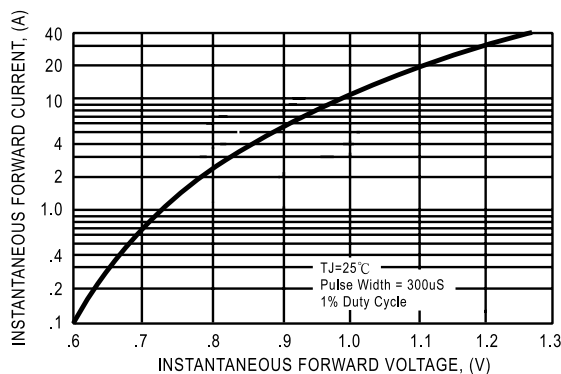


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

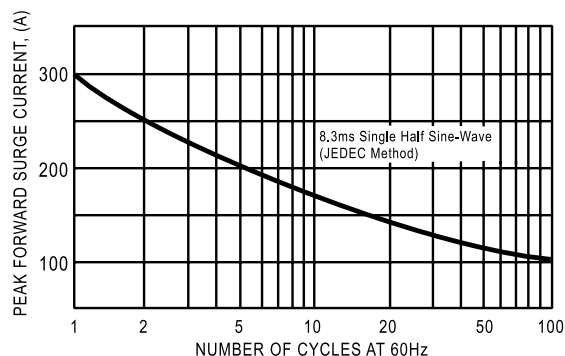


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

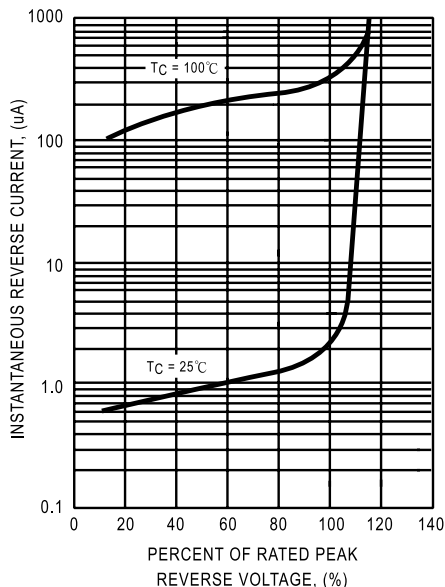
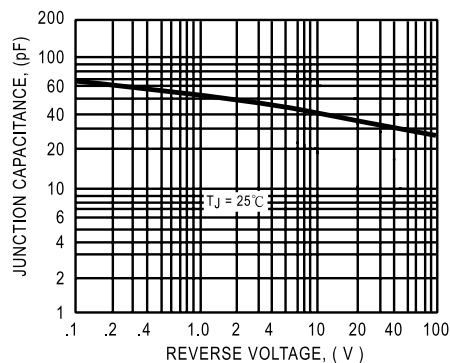


FIG. 6 - TYPICAL JUNCTION CAPACITANCE



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