

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

HER801 THRU HER806

TECHNICAL SPECIFICATIONS OF HIGH EFFICIENCY RECTIFIER VOLTAGE RANGE - 50 to 600 Volts CURRENT - 8.0 Amperes

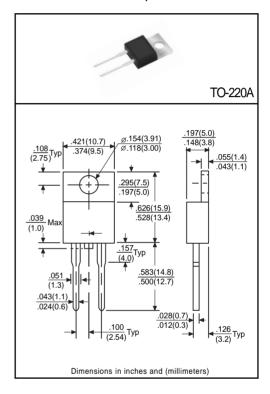
FEATURES

- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per
 - MIL-STD-750, Method 2026
- * Mounting position: Any * Weight: 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating at 25°C ambient tempature unless ohterwise specified Single phase, half wave 60 HZ, resistive or inductive load. For capacitive load, derate current by 20%.



		SYMBOL	HER801	HER802	HER803	HER804	HER805	HER806	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	300	400	600	Volts
Maximum RMS Voltage		VRMS	35	70	140	210	280	420	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	300	400	600	Volts
Maximum Average Forward Rectified Current at TA = 75°C		lo	8.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150			125			Amps
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.0		1.3		1.7	Volts	
Maximum DC Reverse Current	@Tc = 25°C	1-	10						μAmps
at Rated DC Blocking Voltage	@Tc = 100°C	- IR	500						μAmps
Maximum Reverse Recovery Time (Note 1)		trr	50			7	5	100	nSec
Typical Junction Capacitance (Note 2)		Cı	120		70		pF		
Operating and Storage Temperature Range		TJ, TSTG	-55 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
- 4. Suffix "F" Stands for "ITO-220" package. (e.g.: HER801F, HER806F,etc)

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RATING AND CHARACTERISTIC CURVES (HER801 THRU HER806)

FIG.1- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC 50Ω 10Ω |**←** trr **→**| NONINDUCTIVE NONINDUCTIVE D.U.T 0 (+)PULSE -0.254 25 Vdc GENERATOR (approx) (NOTE 2) 1Ω OSCILLOSCOPE NON-(NOTE 1) INDUCTIVE NOTES:1 Rise Time = 7ns max. Input Impendee = SET TIME BASE FOR 1 megohm. 22pF. 2 Rise Time = 10ns max. Souce Impendce =

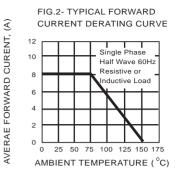
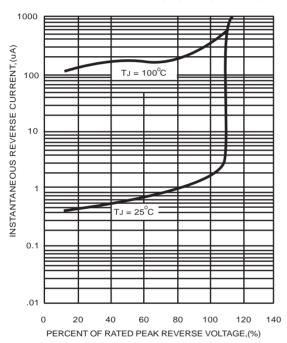


FIG.3- TYPICAL REVERSE CHARACTERISTICS

50 ohms.



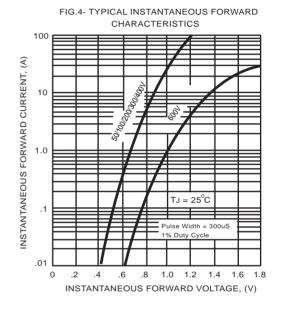
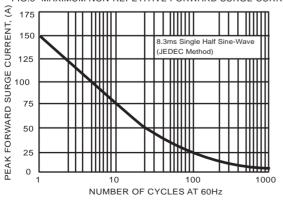
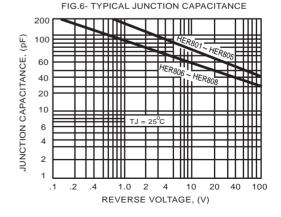


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





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