



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

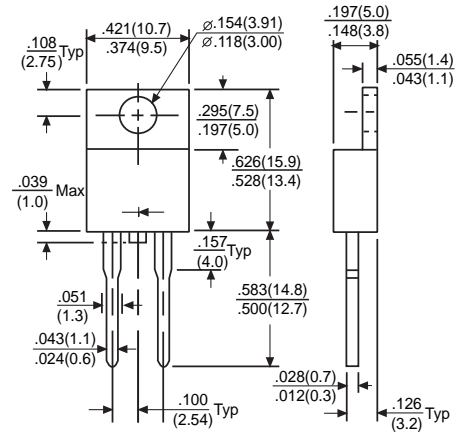
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- * Mounting position: Any
- * Weight: 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.



TO-220A



	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	IO	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 at Rated DC Blocking Voltage	@ Tc = 25°C	10						µAmps
	@ Tc = 100°C	500						µAmps
Maximum Reverse Recovery Time (Note 1)	t _{rr}	50			75	100	nSec	
Typical Junction Capacitance (Note 2)	C _J	120			70			pF
Operating and Storage Temperature Range	T _J , T _{STG}	-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
 4. Suffix "F" Stands for "TO-220" package. (e.g.: SR2020F, SR2030F,etc)

RATING AND CHARACTERISTIC CURVES (HER801 THRU HER806)

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

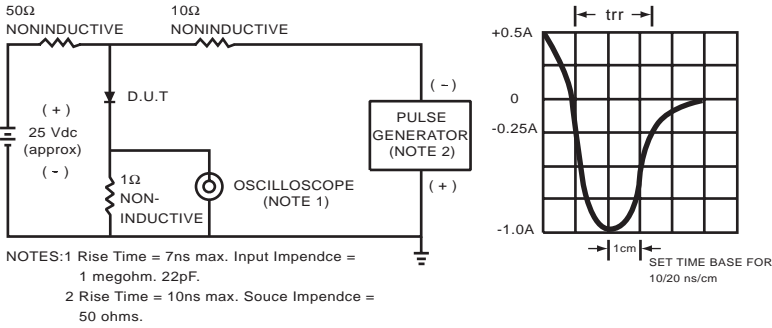


FIG.2- TYPICAL FORWARD CURRENT DERATING CURVE

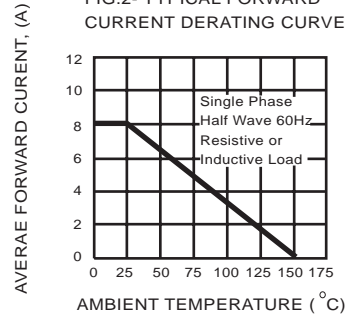


FIG.3- TYPICAL REVERSE CHARACTERISTICS

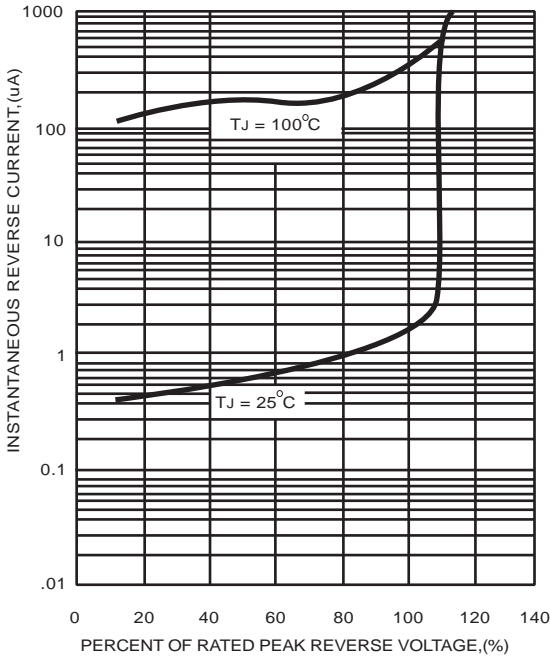


FIG.4- TYPICAL INSTANTANEOUS-FORWARD CHARACTERISTICS

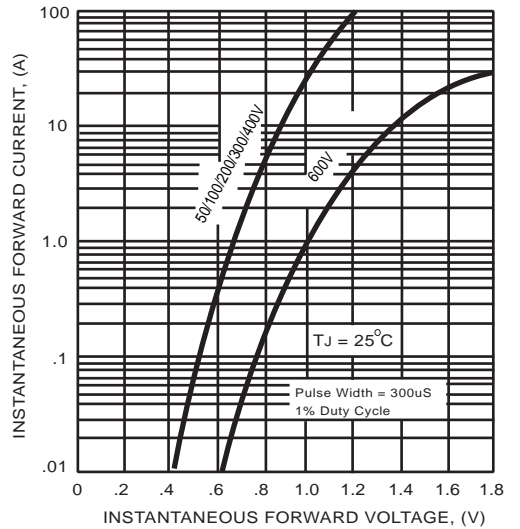


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

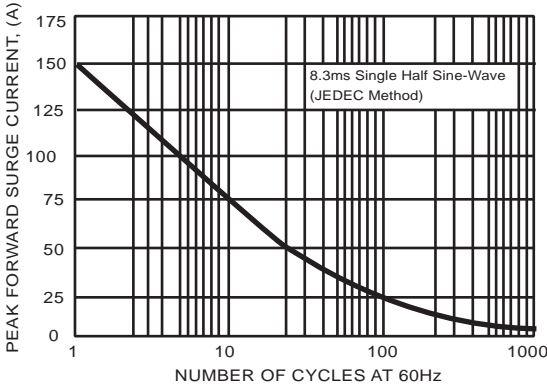


FIG.6- TYPICAL JUNCTION CAPACITANCE

