# DC COMPONENTS CO., LTD.

## **RECTIFIER SPECIALISTS**

HER801F THRU HER806F

## TECHNICAL SPECIFICATIONS OF HIGH EFFICIENCY RECTIFIER

VOLTAGE RANGE - 50 to 600 Volts

#### FEATURES

- \* Low switching noise
- \* Low forward voltage drop

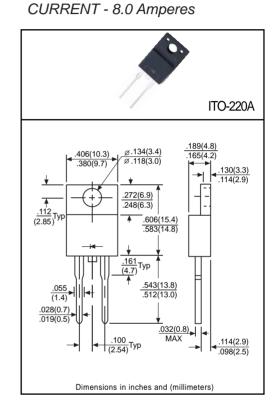
R

- \* 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%.



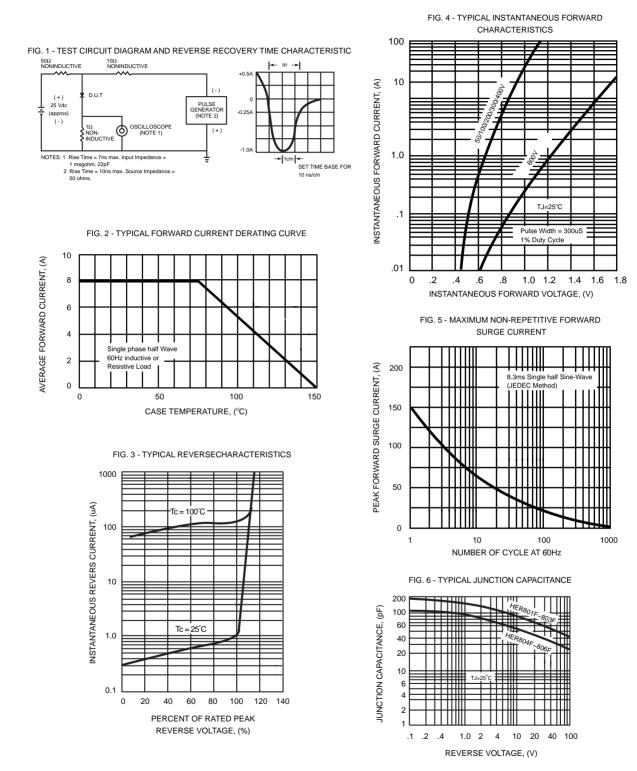
		SYMBOL	HER801F	HER802F	HER803F	HER804F	HER805F	HER806F	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	300	400	600	Volts
Maximum RMS Voltage		Vrms	35	70	140	210	280	420	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	300	400	600	Volts
Maximum Average Forward Rectified Current at Tc = 75°C		ю	8.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150						Amps
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.0 1.3 1.7			1.7	Volts		
Maximum DC Reverse Current	@Tc = 25°C			10					
at Rated DC Blocking Voltage	@Tc = 100°C	IR	500						μAmps
Maximum Reverse Recovery Time (Note 1)		trr	50		75		100	nSec	
Typical Junction Capacitance (Note 2)		CJ	120 70			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

# **RATING AND CHARACTERISTIC CURVES (HER801F THRU HER806F)**



REV-3,MAR,2017

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