# DC COMPONENTS CO., LTD.

## **RECTIFIER SPECIALISTS**

THRU HER1605

HER1601

# TECHNICAL SPECIFICATIONS OF HIGH EFFICIENCY RECTIFIER

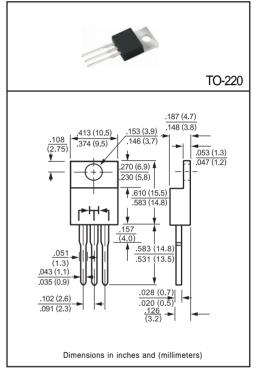
VOLTAGE RANGE - 50 to 400 Volts

### FEATURES

- \* Low power loss, high efficiency
- \* Low forward voltage drop
- \* Low thermal resistance
- \* High current capability
- \* High speed switching
- \* High surge capability
- \* High reliability

## 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



CURRENT - 16 Amperes

#### 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%.

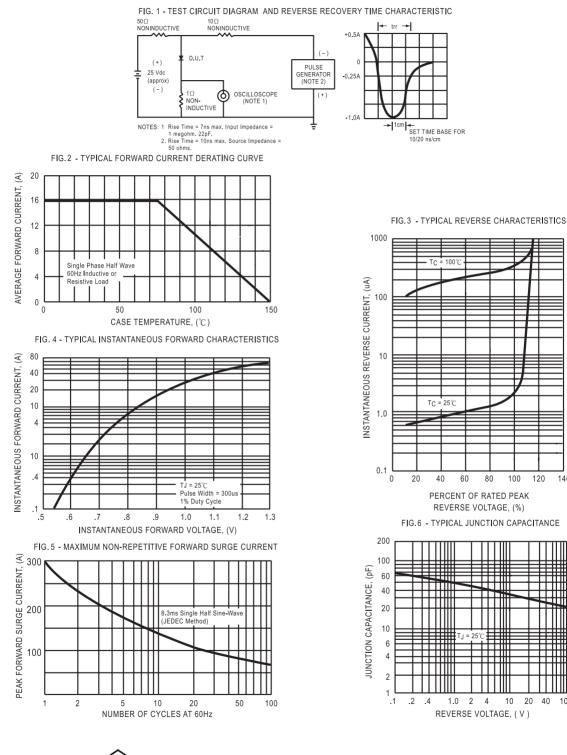
		SYMBOL	HER1601	HER1602	HER1603	HER1604	HER1605	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	300	400	Volts
Maximum RMS Voltage		Vrms	35	70	140	210	280	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	300	400	Volts
Maximum Average Forward Rectified Current at Tc = 75°C		ю	16					Amps
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	@Tc = 25°C		10					- uAmps
at Rated DC Blocking Voltage	@Tc = 100°C	- Ir	150					
Maximum Reverse Recovery Time (Note 1)		trr	60				nSec	
Typical Thermal Resistance		R0J 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 "A"= Common Anode.

#### RATING AND CHARACTERISTIC CURVES (HER1601 THRU HER1605)



140

40 100

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