DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU HER3006

HER3001

TECHNICAL SPECIFICATIONS OF HIGH EFFICIENCY RECTIFIER

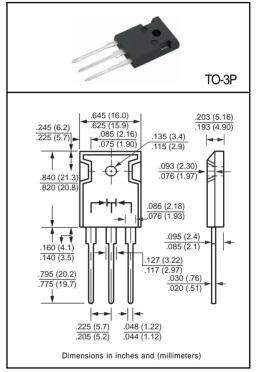
VOLTAGE RANGE - 50 to 600 Volts

FEATURES

- * Low power loss, high efficiency
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High reliability
- * 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: 5.60 grams



CURRENT - 30 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%.

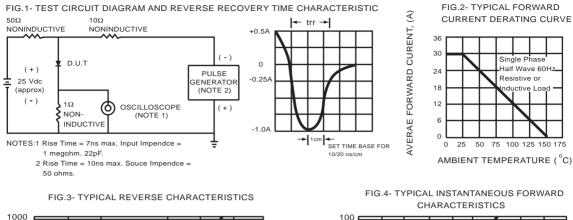
		SYMBOL	HER3001	HER3002	HER3003	HER3004	HER3005	HER3006	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	300	400	600	Volts
Maximum RMS Voltage		Vrms	35	70	140	210	280	420	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	300	400	600	Volts
Maximum Average Forward Rectified Current at Tc = 75°C		ю	30					Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM		250		200			Amps
Maximum Instantaneous Forward Voltage at 15.0A 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	lr	500						μAmps
Maximum Reverse Recovery Time (Note 1)		trr	50		75		100	nSec	
Typical Junction Capacitance (Note 2)		CJ		250		1	50	120	pF
Operating and Storage Temperature Range		TJ, TSTG	-65 to +150					° C	

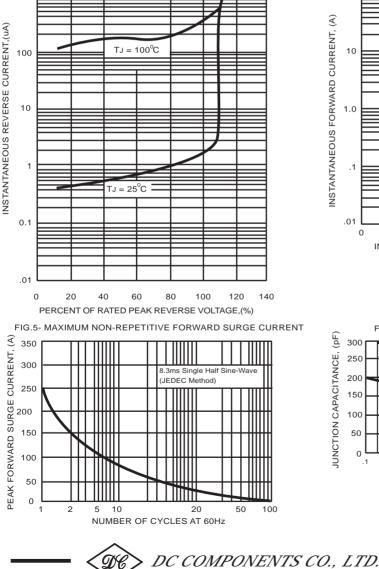
NOTES: 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

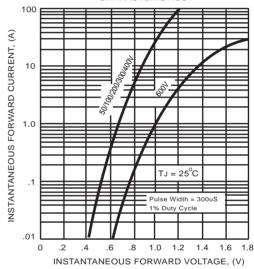
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

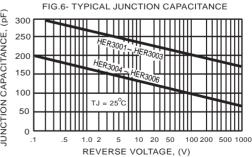
3. Suffix "A" = Common Anode.

RATING AND CHARACTERISTIC CURVES (HER3001 THRU HER3006)









REV-1, Apr/25/2013

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