DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

HER501 THRU HER508

TECHNICAL SPECIFICATIONS OF HIGH EFFICIENCY RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

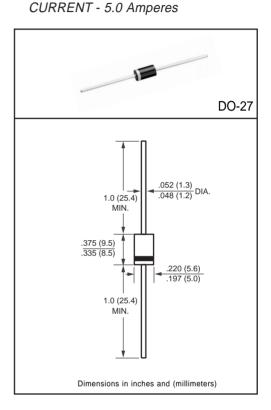
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.4 gram

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	HER501	HER502	HER503	HER504	HER505	HER506	HER507	HER508	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA= 50°C	lo	5.0							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 2.0A DC	VF	1.0 1.3 1.7						Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	IB	10								uAmps
Maximum Full Load Reverse Current Average, Full Cycle .375*(9.5mm) lead length at T L = 55°C	IR	150								uAmps
Maximum Reverse Recovery Time (Note 1)	trr		50		7	5		100		nSec
Typical Junction Capacitance (Note 2)	CJ	70 50						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

RATING AND CHARACTERISTIC CURVES (HER501 THRU HER508)

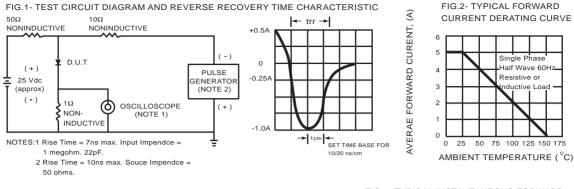


FIG.3- TYPICAL REVERSE CHARACTERISTICS

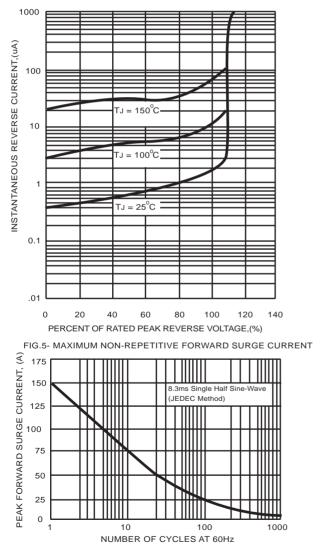
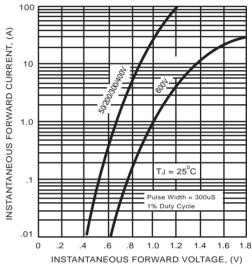
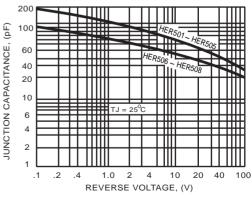


FIG.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS







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