

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

HER201 THRU HER208

TECHNICAL SPECIFICATIONS OF HIGH EFFICIENCY RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 2.0 Amperes

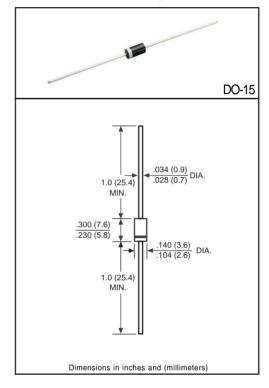
FEATURES

- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage
- * 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 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	HER201	HER202	HER203	HER204	HER205	HER206	HER207	HER208	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	2.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50								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	le le			5.0						uAmps
Maximum Full Load Reverse Current Average, Full Cycle .375*(9.5mm) lead length at T L = 55°C	- IR	100								uAmps
Maximum Reverse Recovery Time (Note 1)	trr		50		7	7 5		100		nSec
Typical Junction Capacitance (Note 2)	CJ		30 20						pF	
Operating and Storage Temperature Range	TJ, TSTG		-55 to + 150							°C

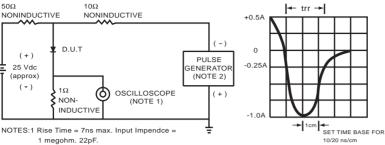
NOTES: 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

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

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RATING AND CHARACTERISTIC CURVES (HER201 THRU HER208)

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



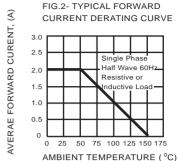
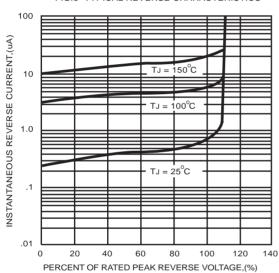


FIG.3- TYPICAL REVERSE CHARACTERISTICS

2 Rise Time = 10ns max. Souce Impendce =

50 ohms.



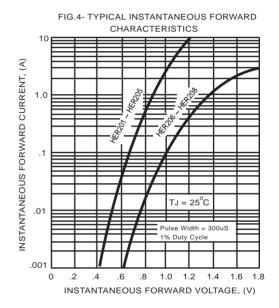
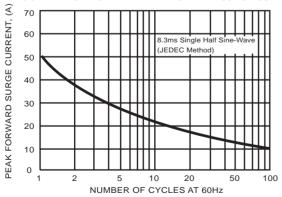
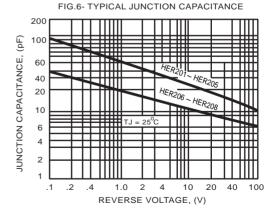


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT 70





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