

HER301G THRU HER308G

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 3.0 Ampere

FEATURES

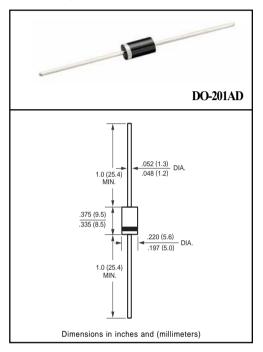
- * Glass passivated junction
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High reliability
- * High current surge

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 1.20 grams

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%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	HER301G	HER302G	HER303G	HER304G	HER305G	HER306G	HER307G	HER308G	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	3.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	200 150						Amps		
Typical Junction Capacitance (Note 2)	Cı	70 50						pF		
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150							٥С	

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	HER301G HER302G HER303G	HER304G HER305G	HER306G HER307G H	IER308G UNITS			
Maximum Instantaneous Forward Voltage at 3.0A DC	VF	1.0	1.3	1.7	Volts			
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	1-	10						
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 55°C	- IR	150						
Maximum Reverse Recovery Time (Note 1)	trr	50		75	nSec			

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

RATING AND CHARACTERISTIC CURVES (HER301G THRU HER308G)

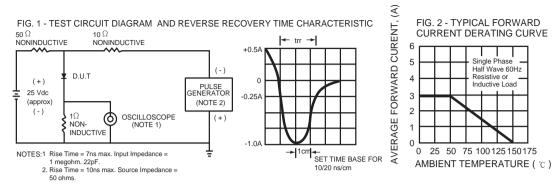


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

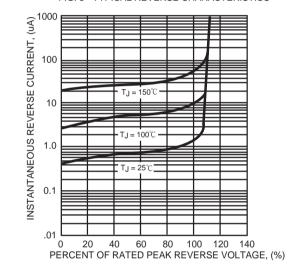
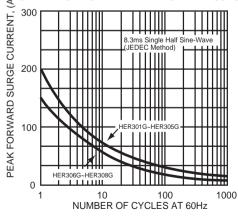
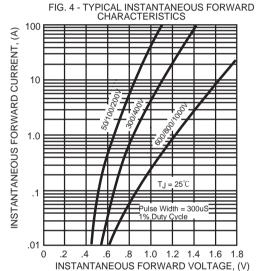
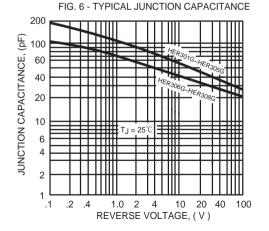


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT









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