



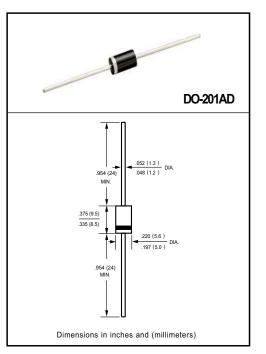
HIGH EFFICIENCY SILICON RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 3.0 Amperes

FEATURES

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

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Case: Molded plastic
- * 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.

resistive or inductive load.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise note	· · · · · · · · · · · · · · · · · · ·									
RATINGS		HER301	HER302	HER303	HER304	HER305	HER306	HER307	HER308	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A = 50°C	I _O	3.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	2 I _{FSM} 200 150				Amps					
Typical Current Squared Time	I ² T 165.9 93.3					A ² S				
Typical Thermal Resistance (Note 1)	R _{θJL}	8.5							°C/W	
	RθJA	20] ""
Typical Junction Capacitance (Note 2)	CJ	C _J 70 50					pF			
Operating Temperature Range	TJ	-55 to + 150						° C		
Storage Temperature Range	T _{STG}	-55 to + 150						° C		

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

CHARACTERIS	SYMBOL	HER301	HER302	HER303	HER304	HER305	HER306	HER307	HER308	UNITS
Maximum Instantaneous Forward Voltage	VF	1.0 1.3 1.7					Volts			
Maximum Average Reverse Current	@T _A = 25°C		5.0							μA
at Rated DC Blocking Voltage	@T _A = 150°C	IR	'R			20				mA
Maximum Reverse Recovery Time (Note	trr	50 75					nSec			

NOTES : 1. Thermal Resistance : Mounted on PCB.

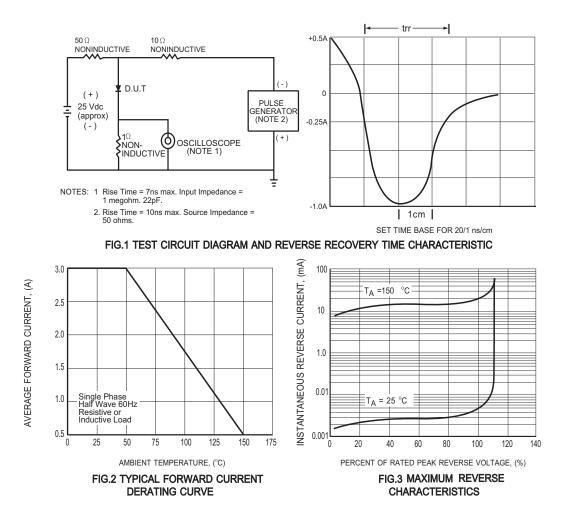
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3. "ROHS compliant"

4. Test Conditions: I_F = 0.5A, I_R = -1.0A, I_{RR} = -0.25A.

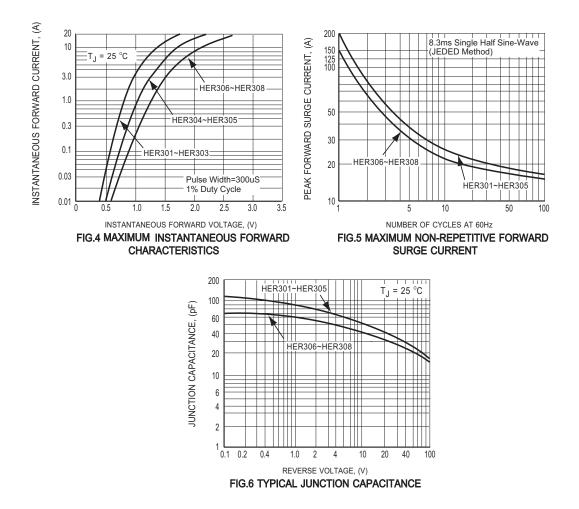
2020-04 REV:B

RATING AND CHARACTERISTICS CURVES (HER301 THRU HER308)



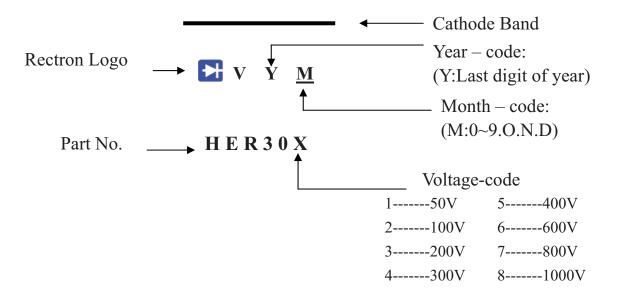


RATING AND CHARACTERISTICS CURVES (HER301 THRU HER308)





Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-201	-В	500	300*73*40	347*320*271	12,000	15.9

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-201	-T	1,200	1,200	5.0	52	330	355*350*335	4,800	9.10

AMMO PACK

PACKAGE	PACKING	REEL	COMPONENT	TAPE SPACE	BOX SIZE	CARTON	CARTON	GROSS
	CODE	(EA)	SPACE(mm)	(mm)	(mm)	SIZE(mm)	(EA)	WEIGHT (Kg)
DO-201	-F	600	9.5	52	255*73*100	400*268*225	6,000	9.9



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

