



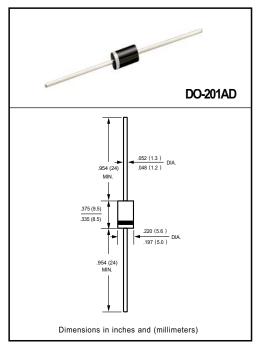
HIGH EFFICIENCY SILICON RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 3.0 Amperes

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 noted) SYMBOL HER301 HER302 HER303 HER304 HER305 HER306 HER307 HER308 UNITS RATINGS 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 50 100 200 300 400 600 800 1000 Volts V_{DC} Maximum Average Forward Rectified Current l_o 3.0 Amps at T_A = 50°C Peak Forward Surge Current 8.3 ms single half sine-wave 200 150 IESM Amps superimposed on rated load (JEDEC method) Typical Current Squared Time 165.9 93.3 $I^2 T$ A^2S $R_{\theta JL}$ 8.5 °C/W Typical Thermal Resistance (Note 1) $R_{\,\theta\,J\,A}$ 20 Typical Junction Capacitance (Note 2) $C_{\rm J}$ 70 50 рF Operating Temperature Range ТJ -55 to + 150 ⁰ C -55 to + 150 ⁰ C Storage Temperature Range T_{STG}

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	20								mA
Maximum Reverse Recovery Time (Note	trr	50 75				nSec					

NOTES : 1. Thermal Resistance : Mounted on PCB.

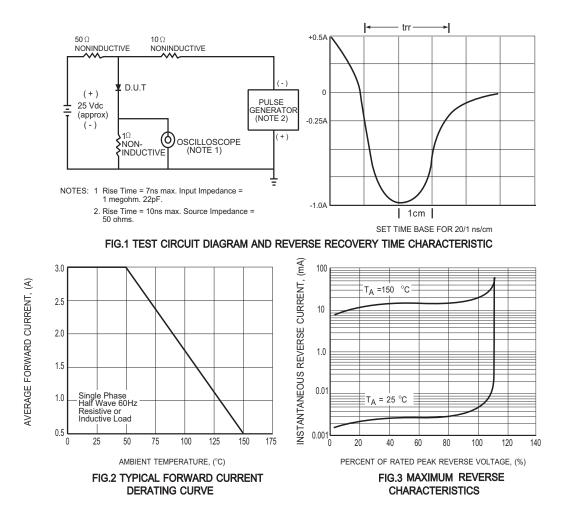
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3. "ROHS compliant"

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

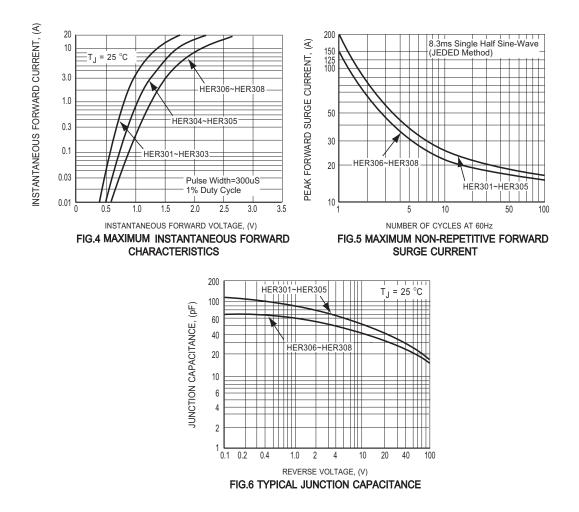
2020-04 REV:B

RATING AND CHARACTERISTICS CURVES (HER301 THRU HER308)



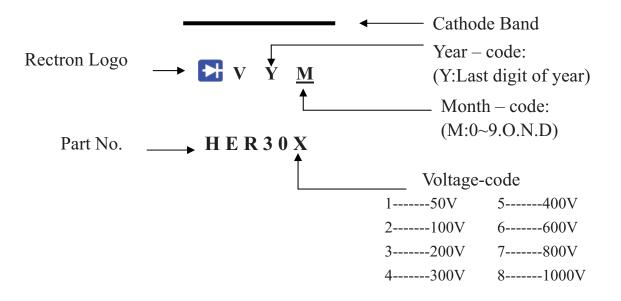


RATING AND CHARACTERISTICS CURVES (HER301 THRU HER308)





Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKA	GE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-2	201	-B	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



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