



HIGH EFFICIENCY RECTIFIER

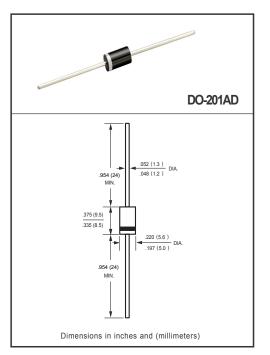
VOLTAGE RANGE 50 to 1000 Volts CURRENT 5.0 Amperes

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)

RATINGS (@ 1A=25 °C UNIESS OTHERWISE HOTED) RATINGS SYMBOL HER501 HER502 HER503 HER504 HER505 HER506 HER507 HER508 UNITS										
RATINGS		HER501	HER502	HER503	HER504	HER505	HER506	HER507	HER508	UNITS
Maximum Recurrent Peak Reverse Voltage		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	5.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	e I _{FSM} 200 150				Amps					
Current Squarad Time	l ² t 165.9 93.3			93.3		A ² /Sec				
Typical Thermal Resistance (Note 1)	RθJL	8							°C/W	
Typical memal resistance (Note T)	RθJA	17								
Typical Junction Capacitance (Note 2)	CJ	70 50				pF				
Operating Temperature Range	TJ	-55 to + 150						° C		
Storage Temperature Range	T _{STG}	-55 to + 150						°C		

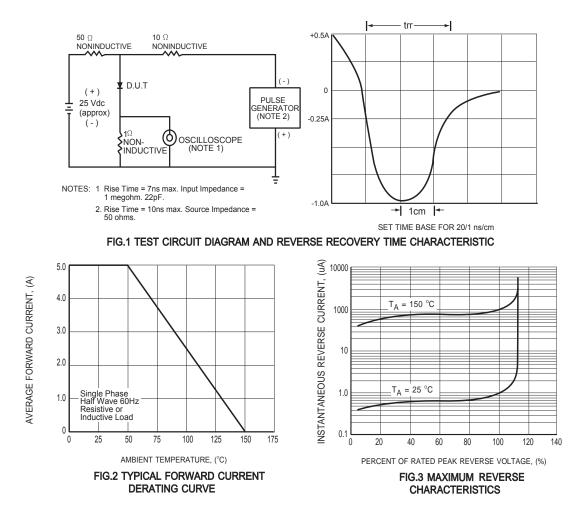
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	HER501	HER502	HER503	HER504	HER505	HER506	HER507	HER508	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC	VF	1.0		1.3		1.7		Volts		
Maximum Average Reverse Current										
at Rated DC Blocking Voltage @T _A = 25°C	6	0.5							μA	
Maximum Average Reverse Current		1.0							mA	
at Rated DC Blocking Voltage @TA = 150°C						1.0				mA
Maximum Reverse Recovery Time (Note 4) trr			50 75					nSec		
NOTES: 1. Thermal Resistance: At 9.5mm lead length, PCB mounted. 200									2020-04	

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.

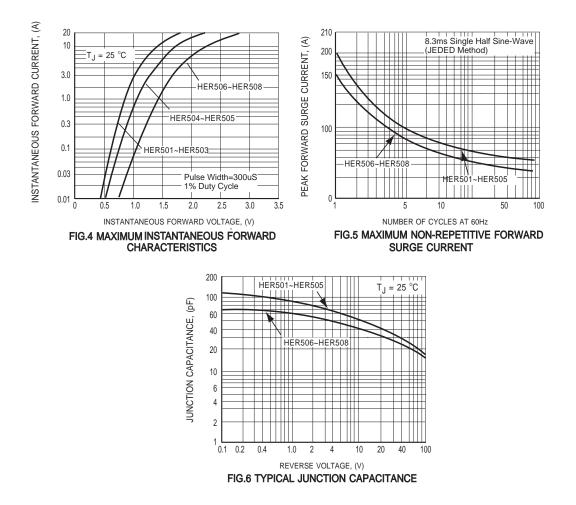
REV:D

RATING AND CHARACTERISTICS CURVES (HER501 THRU HER508)



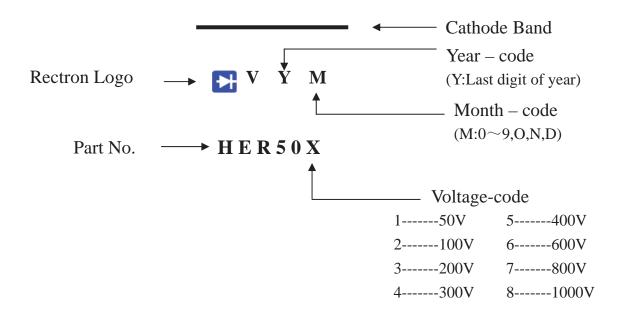








Marking Description



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

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