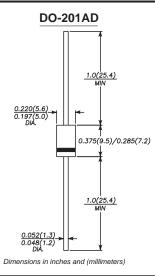
HER501 THRU HER508

HIGH EFFICIENCY RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 5.0 Amperes



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- High speed switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: DO-201AD molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.04 ounce, 1.10 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

	SYMBOLS	HER 501	HER 502	HER 503	HER 504	HER 505	HER 506	HER 507	HER 508	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current	Icaso	I(AV) 5.0							A	
0.375"(9.5mm) lead length at Ta=50°C	I(AV)	3.0								
Peak forward surge current		lfsm 200.0								
8.3ms single half sine-wave superimposed on	IFSM							Α		
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 5.0A	VF	1.0		1.3		1.70			V	
Maximum DC reverse current Ta=25°C		10.0 200.0								μА
at rated DC blocking voltage Ta=100℃	l _R								μΑ	
Maximum reverse recovery time (NOTE 1)	trr	50			75		ns			
Typical junction capacitance (NOTE 2)	Cı	100.0			65.0		pF			
Typical thermal resistance (NOTE 3)	Reja	10.0					°C/W			
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C	

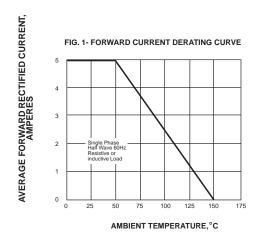
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

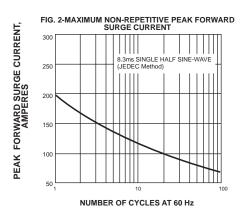
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

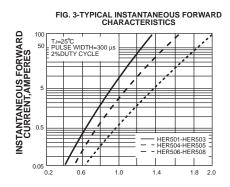
3.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

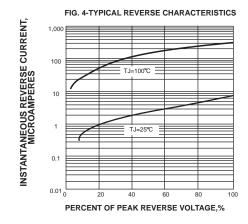


RATINGS AND CHARACTERISTIC CURVES HER501 THRU HER508

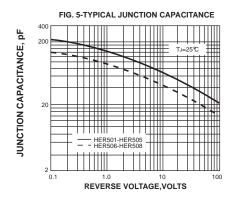


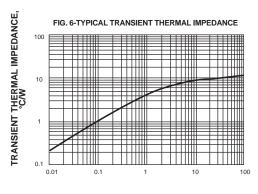












t,PULSE DURATION,sec.



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