

HER301 THRU HER308

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Ampere

HIGH EFFICIENCY RECTIFIERS

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: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

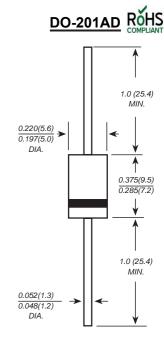
Case: JEDEC DO-201AD Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

Weight: 0.04 ounce, 1.10 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwisespecified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

parameter	SYMBOLS	HER 301	HER 302	HER 303	HER 304	HER 305	HER 306	HER 307	HER 308	UNITS
Marking code		MDD HER 301	MDD HER 302	MDD HER 303	MDD HER 304	MDD HER 305	MDD HER 306	MDD HER 307	MDD HER 308	314113
Maximum repetitive peak reverse voltage	VRRM	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	MS voltage V _{RMS} 35 70 140 210 280 420 560 700		700	V						
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=50°C	l(AV)	3.0				А				
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	200.0 150.0				А				
Maximum instantaneous forward voltage at 3.0A	VF		1.0		1.3 1.7			V		
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR	5.0 150.0					μΑ			
Maximum reverse recovery time (NOTE 1)	trr	50			70		ns			
Typical junction capacitance (NOTE 2)	Cı	70.0		50.0		pF				
Typical thermal resistance (NOTE 3)	Reja	20.0				°C/W				
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150			°C					

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

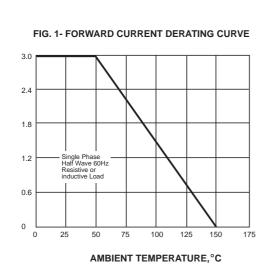
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

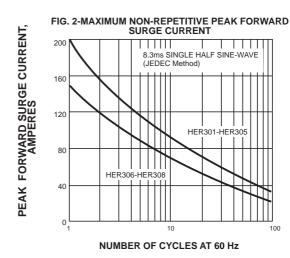
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Ratings And Characteristic Curves









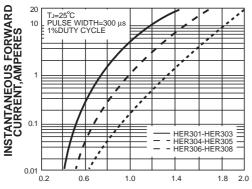
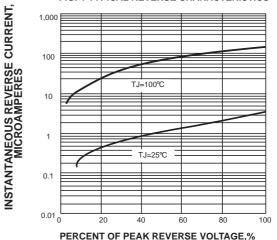
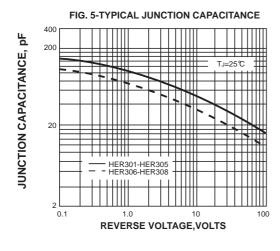
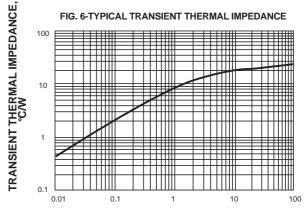


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE,





t,PULSE DURATION,sec.

The curve above is for reference only.

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