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**Green Products** 

# HER301-G THRU HER308-G

# HIGH EFFICIENCY RECTIFIERS

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

# 

Dimensions in inches and (millimeters)

### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- High 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
- ◆ Green Products in Compliance with the R HS Directive

#### **MECHANICAL DATA**

Case: JEDEC 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 301-G	HER 302-G	HER 303-G	HER 304-G	HER 305-G	HER 306-G	HER 307-G	HER 308-G	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	300	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	210	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current	l(AV) 3.0							Amps		
0.375"(9.5mm) lead length at Ta=50℃	.,,									711103
Peak forward surge current		200.0								
8.3ms single half sine-wave superimposed on	IFSM					150.0		Amps		
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 3.0A	VF	1.0		1.3		1.70			Volts	
Maximum DC reverse current T <sub>A</sub> =25℃		5.0 150.0							μΑ	
at rated DC blocking voltage Ta=100 ℃	lR									
Maximum reverse recovery time (NOTE 1)	trr	50				70			ns	
Typical junction capacitance (NOTE 2)	Cı	70.0			50			pF		
Typical thermal resistance (NOTE 3)	R <sub>0</sub> JA	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

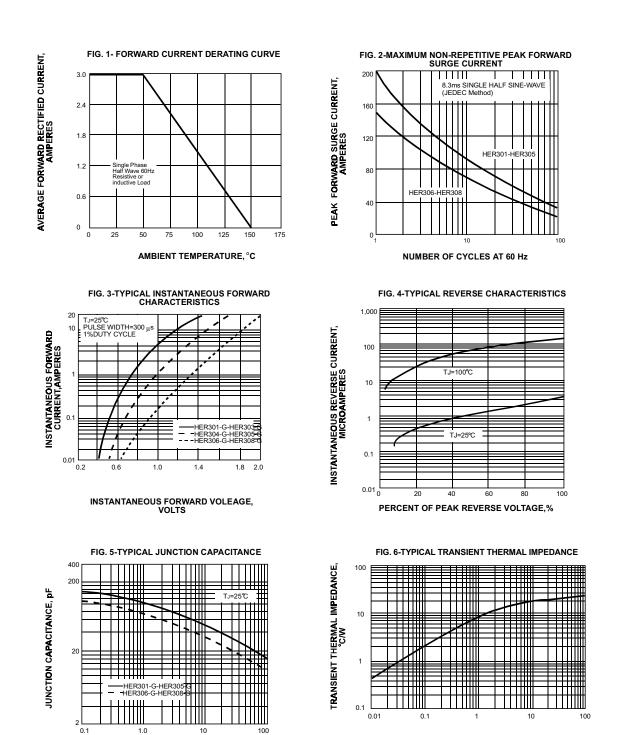
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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 HER301-G THRU HER308-G



t,PULSE DURATION,sec.

REVERSE VOLTAGE, VOLTS

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