# HER301 THRU HER308

### HIGH EFFICIENCY RECTIFIER

#### REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 3.0 Ampere

### FEATURES

- ◆Low power loss, high efficiency
- ◆Low forward voltage drop
- ◆Low leakage current
- ◆High forward surge capability
- ♦ High reliability
- ◆High temperature soldering guaranteed:

 $260^{\circ}$ C/10 seconds,0.375" (9.5mm)lead length at

5 lbs(2.3kg) tension

### Mechanical Data

◆Case: Transfer molded plastic

◆Epoxy: UL94V-0 rate flame retardant

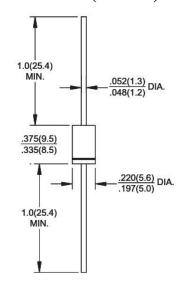
◆Polarity: Color band denotes cathode end

◆Lead: Plated axial lead, solderable per

MIL-STD-202E method 208°C

◆Mounting position: Any

### **DO-201AD(DO-27)**



**Dimensions in inches and (millimeters)** 

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

single phase, han wave, voliz, resistive of inductive load. For capacitive load, defate current by 2070										
	SYMBOL	HER 301	HER 302	HER 303	HER 304	HER 305	HER 306	HER 307	HER 308	UNIT
Maximum Recurrent Peak Reverse Voltage	$V_{\text{RRM}}$	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{\text{RMS}}$	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 <sub>(AV)</sub>	3.0								Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	IFSM	150								Amps
Maximum Instantaneous Forward Voltage at 3.0A	$V_{\rm F}$	1.0				1.3		1.7		Volts
Maximum DC Reverse Current $T_A=25^{\circ}C$ at rated DC Blocking voltage $T_A=100^{\circ}C$	IR	10 150								μА
Maximum Reverse Recovery Time (NOTE1)	$T_{RR}$	50 75							nS	
Typical Junction Capacitance (NOTE 2)	$C_{\mathrm{J}}$	70						50		pF
Operating and Storage Temperature Range	T <sub>J</sub> , Tstg	-55 to +150							$^{\circ}$ C	

Note: 1.Reverse Recovery Test Conditions:If=0.5A,Ir=1.0A,Irr=0.25A.

2.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

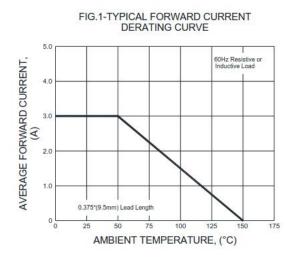


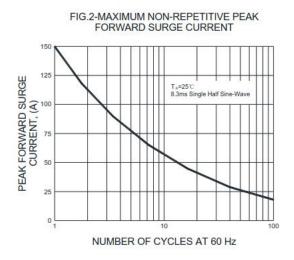
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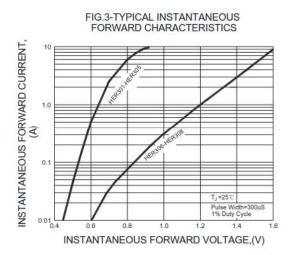
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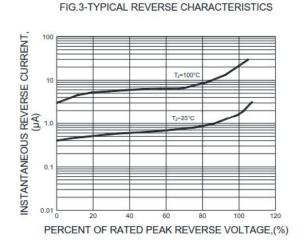
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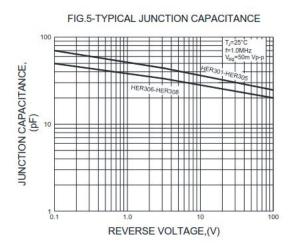
#### RATING AND CHARACTERISTIC CURVES HER301 THRU HER308

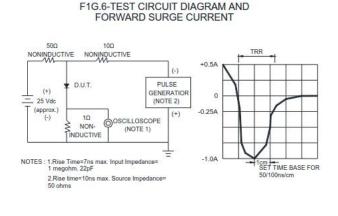












Note: Specifications are subject to change without notice. For more detail and update, please visit our website.