

# HER301 - HER305

# **3.0A HIGH EFFICIENCY RECTIFIER**

### Features

## DISCONTINUED NOT RECOMMENDED FOR NEW DESIGNS, USE UF3001 - UF3007

Low Power Loss, High Efficiency Low Leakage Low Forward Voltage Drop High Current Capability High Speed Switching High Surge Current Rating Plastic Material - UL Flammability Classification 94V-0



## **Mechanical Data**

Case: Molded Plastic Terminals: Plated Axial Leads, Solderable per MIL-STD-202, Method 208 Polarity: Color Band Denotes Cathode Approx. Weight: 1.2 grams

DO-201AD						
Dim	Min	Max				
Α	25.4	_				
В	_	9.5				
С	1.2	1.3				
D	4.8	5.2				
All Dimensions in mm						

## **Maximum Ratings and Electrical Characteristics**

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	HER301	HER302	HER303	HER304	HER305	Unit
Maximum Recurrent Peak Reverse Voltage		50	100	200	300	400	V
Maximum RMS Voltage		35	70	140	210	280	V
Maximum DC Blocking voltage	V <sub>DC</sub>	50	100	200	300	400	V
Maximum Average Forward Rectified Current 9.5mm Lead Length $@T_A=50^{\circ}C$		3.0					А
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		125					А
Maximum Instantaneous Forward Voltage at 3.0 A DC		1.1					V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25^{\circ}C$		10					μA
$\begin{array}{llllllllllllllllllllllllllllllllllll$		150					μΑ
Maximum Reverse Recovery Time (Note 1)		50					nS
Typical Junction Capacitance (Note 2)		70					pF
Operating and Storage Temperature Range		-65 to +150					°C

Notes: 1. Reverse Recovery Test Conditions:  $I_F$  =0.5 A,  $I_R$  =1.0 A,  $I_{RR}$ =0.25A 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.





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