

HER101 - HER106

1.0A HIGH EFFICIENCY RECTIFIER

Features

Low Leakage Low Forward Voltage Drop High Current Capability High Speed Switching Plastic Material: UL Flammability Classification Rating 94V-0

Mechanical Data

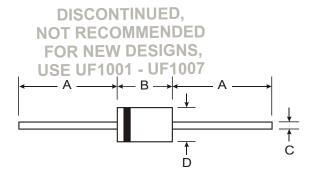
Case: DO-41, Molded Plastic

Terminals: Plated Axial Leads, Solderable per

MIL-STD-202, Method 208

Polarity: Color Band Denotes Cathode

Mounting Position: Any Weight: 0.35 grams (approx.)



DO-41							
Dim	Min	Max					
Α	25.4	_					
В	4.1	5.2					
С	0.71	0.86					
D	2.0	2.7					
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	HER 101	HER 102	HER 103	HER 104	HER 105	HER 106	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	V
Maximum DC Blocking voltage	V _{DC}	50	100	200	300	400	600	V
Maximum Average Forward Rectified Current 9.5mm Lead Length @ T _A = 50 C	I _(AV)	1.0						А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FM}	30					А	
Maximum Instantaneous Forward Voltage @ 1.0A DC	VF	V _F 1.1 1.				1.75	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5.0						А
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _A = 150 C	I _R	100					А	
Maximum Reverse Recovery Time (Note 1)	t _{rr}			50			100	ns
Typical Junction Capacitance (Note 2)		20						pF
Operating and Storage Temperature Range		-65 to +150						С

1. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{rr} =0.25A Notes:

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



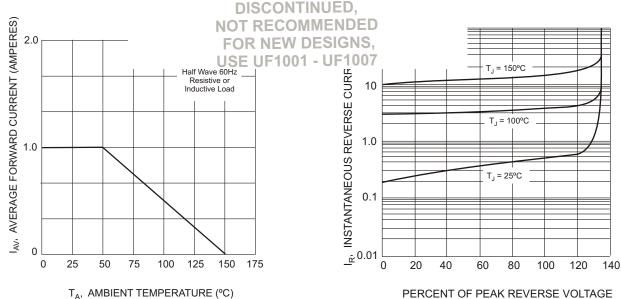
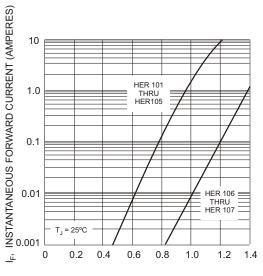


Fig. 1 Typical Forward Current Derating Curve



V_F, INSTANTANEOUS FORWARD VOLTAGE (VOLTS)

Fig. 3 Typical Instantaneous Forward Characteristics

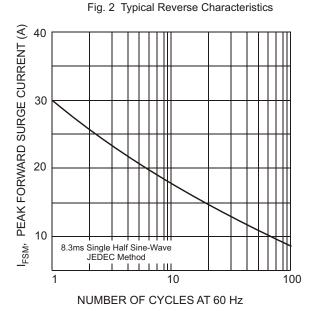
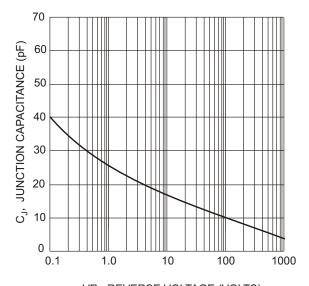


Fig. 4 Max Non-Repetitive Peak Fwd Surge Current (A)



VR, REVERSE VOLTAGE (VOLTS)

Fig. 5 Typical Junction Capacitance

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