

HER101 - HER106

1.0A HIGH EFFICIENCY RECTIFIER

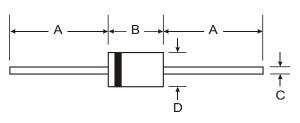
Features

- NOT RECOMMENDED FOR NEW DESIGNS, _____ USE UF1001 - UF1007

- 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	Мах				
Α	25.4	—				
В	4.1	5.2				
С	0.71	0.86				
D	2.0	2.7				
All Dimensions in mm						

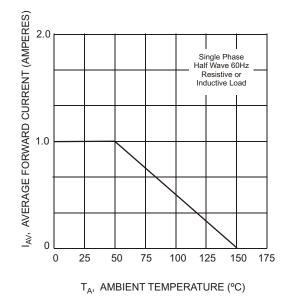
Maximum Ratings and Electrical Characteristics

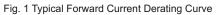
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

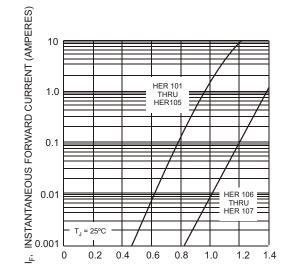
Characteristic	Symbol	HER 101	HER 102	HER 103	HER 104	HER 105	HER 106	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	V
Maximum DC Blocking voltage	V _{DC}	50	100	200	300	400	600	V
Maximum Average Forward Rectified Current 9.5mm Lead Length $@T_A = 50^{\circ}C$	I _(AV)	1.0					Α	
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	1.1 1.75					V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5.0					μA	
Maximum DC Reverse Current at Rated DC Blocking Voltage $@ T_A = 150^{\circ}C$	I _R	100				μA		
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					°C	

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



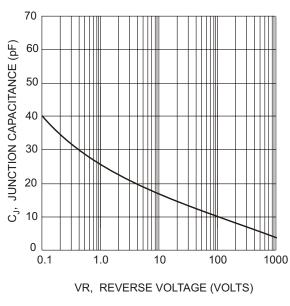






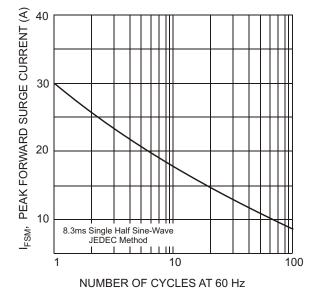
V_F, INSTANTANEOUS FORWARD VOLTAGE (VOLTS)

Fig. 3 Typical Instantaneous Forward Characteristics





W HUND THE THE PEAK REVERSE VOLTAGE Fig. 2 Typical Reverse Characteristics





DS25001 Rev. 6 - 3

2 of 2 www.diodes.com