

RoHS

HER151 - HER158

1.5 AMPS. High Efficient Rectifiers

DO-15

Features

- ∻ High efficiency, Low VF
- ∻ High current capability
- ∻ High reliability
- ∻ High surge current capability
- ♦ For use in low voltage, high frequency inventor, free wheeling, and polarity protection application.

Mechanical Data

∻ Case: Molded plastic DO-15

- ♦ Epoxy: UL 94V0 rate flame retardant
- ∻ Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ∻ Polarity: Color band denotes cathode
- ∻ High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ∻ Mounting position: Any
- ∻ Weight: 0.40 gram

Dimensions in inches and (millimeters)

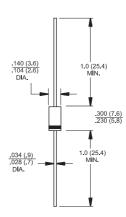
Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	HER 151	HER 152	HER 153	HER 154	HER 155	HER 156	HER 157	HER 158	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @T _A = 55 °C	I _(AV)	1.5								A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							А	
Maximum Instantaneous Forward Voltage @ 1.5A	V _F	1.0 1.3				1.7		V		
Maximum DC Reverse Current @ $T_A=25$ °C at Rated DC Blocking Voltage @ $T_A=125$ °C	I _R	5.0 150							uA uA	
Maximum Reverse Recovery Time (Note 1)	Trr	50 75						nS		
Typical Junction Capacitance (Note 2)	Cj	50 35						pF		
Typical thermal resistance	R_{\thetaJA}	60							°C/W	
Operating Temperature Range	TJ	-65 to +150							°C	
Storage Temperature Range	T _{STG}	-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 MHz and Applied Reverse Voltage of 4.0 V D.C.

3. Mount on Cu-Pad Size 10mm x 10mm on PCB.





RATINGS AND CHARACTERISTIC CURVES (HER151 THRU HER158)

