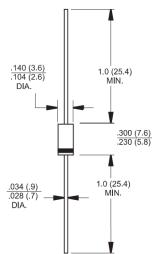


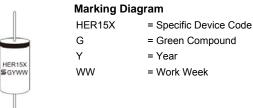


HER151 - HER158 1.5AMPS. High Efficient Rectifiers





Dimensions in inches and (millimeters)



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
- Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- ♦ Case: Molded plastic DO-15
- ♦ Epoxy: UL 94V-0 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 ℃ /10 seconds/.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension
- ♦ Mounting position: Any
- ♦ Weight: 0.4 grams

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ 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 $^{\circ}$ C	I _{F(AV)}	1.5							Α	
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							Α	
Maximum Instantaneous Forward Voltage (Note 1) @ 1.5A	V _F	1.0 1.3				1.7			V	
Maximum DC Reverse Current @ T_A =25 $^{\circ}$ C at Rated DC Blocking Voltage @ T_A =125 $^{\circ}$ C	I _R	5 150							uA uA	
Maximum Reverse Recovery Time (Note 2)	Trr	50 75							nS	
Typical Junction Capacitance (Note 3)	Cj	50 35						pF		
Typical Thermal Resistance (Note 4)	$R_{\theta JA}$	60							°C/W	
Operating Temperature Range	TJ	- 65 to + 150							οС	
Storage Temperature Range	T_{STG}	- 65 to + 150							οС	

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Note 4: Mount on Cu-Pad Size 10mm x 10mm on PCB

Version:C10



RATINGS AND CHARACTERISTIC CURVES (HER151 THRU HER158)

