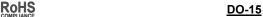


HER151G - HER158G

1.5 AMPS. Glass Passivated High Efficient Rectifiers





Features

- Glass passivated chip junction.
- ♦ 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

- ♦ 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

140 (3.6) 104 (2.6) DIA. 300 (7.6) 230 (5.8) 1.0 (25.4) MIN. 300 (7.6) 1.0 (25.4) MIN.

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 151G	HER 152G	HER 153G	HER 154G	HER 155G	HER 156G	HER 157G	HER 158G	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	٧
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @T _A = 55°C	I _(AV)	1.5								А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							Α	
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	35						20		pF
Typical Thermal Resistance	R _{θJA}	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 P.C.B.

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RATINGS AND CHARACTERISTIC CURVES (HER151G THRU HER158G)

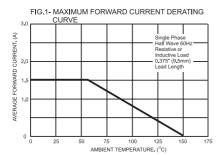


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE

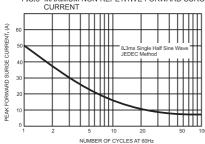


FIG.2- TYPICAL REVERSE CHARACTERISTICS

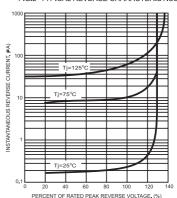


FIG.5- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

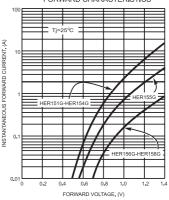
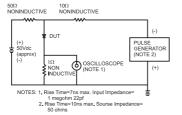
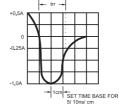


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





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