

## **High Efficiency Rectifier**

#### Features

- Low power loss, high efficiency
- Low leakage
- High Surge Capacity
- High switching speed
- High temperature soldering guaranteed:
- 260°C/10 seconds, 0.375" (9.5mm) lead length
- RoHS and REACH Compliance

### **Mechanical Data**

Case:	Transfer molded plastic
Polarity:	Color band denots cathode end
Epoxy:	UL94V-0 rate flame retardant
Lead:	Plated axial lead, solderable per MIL-STD-202E Method 208C
Mounting Position:	Any
Weight:	0.014 ounce, 0.39 gram

### Maximum Ratings (T Ambient=25°C unless noted otherwise)

Symbol	Description	HER 151	HER 152	HER 153	HER 154	HER 155	HER 156	HER 157	HER 158	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage		100	200	300	400	600	800	1000	v	
VRMS	Max RMS Voltage	35	70	140	210	280	420	560	700	v	
VDC	Max DC Blocking Voltage	50	100	200	300	400	600	800	1000	v	
I(AV)	Max Average Forward Rectified Current 0.375" (9mm) lead length	1.0							Α	<b>TA=50</b> ℃	
IFSM	Peak Forward Surge Current	30								Α	JEDEC method
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150, -55 to +150							C		
Rθ-JA	Typical Thermal Resistance	40							°C/W	Note 2	

### Electrical Characteristics (*T* Ambient=25°C unless noted otherwise)

Symbol	Description	HER 151	HER 152	HER 153	HER 154	HER 155	HER 156	HER 157	HER 158	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.0		1.3		1.5		1.7		v	1.5A
IR(AV)	Maximum Full Load Reverse Current, Full Cycle average		100								0.375" (9.5mm) lead length at TL= 55 $^\circ\!\!\mathbb{C}$
IR	Max DC Reverse Current at Rated DC Blocking Voltage		5.0 250								TA=25℃ TA=125℃
TRR	Maximum reverse recovery time		50				70				Note 1
C	Typical Junction capacitance		30 20							pF	Measured at 1.0MHz / 4.0V

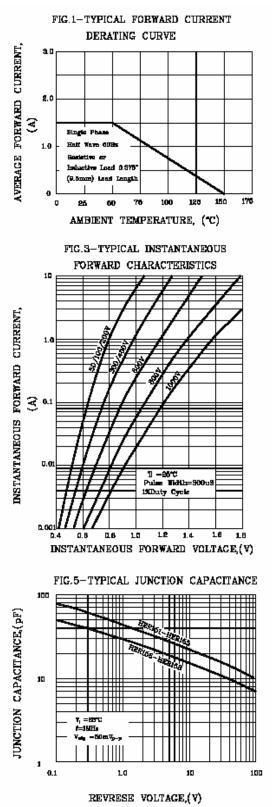
#### Note:

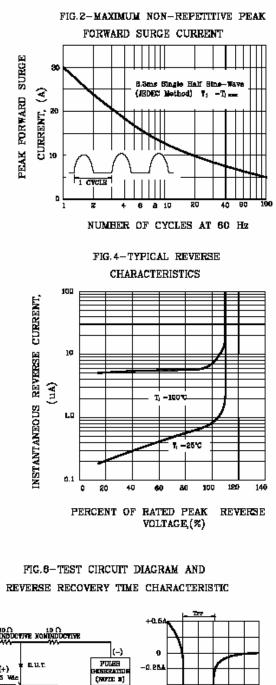
- 1. Reverse recovery test conditions: IF= 0.5A, IR=1.0A, IRR = 0.25A
- 2. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted

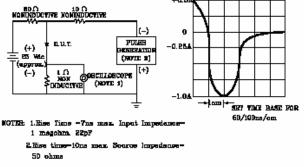


## HER151 ~ HER158

### **RATINGS AND CHARACTERISTIC CURVES HER151 THRU HER158**





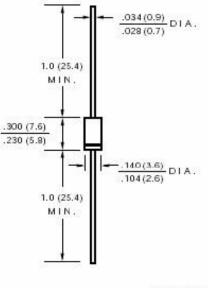




**High Efficiency Rectifier** 

# HER151 ~ HER158

## **Dimensions in inches (mm)**



DO-15

**Contact us:** 

### **US HEADQUARTERS**

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