

# HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER HER251G ~ HER258G

## **High Efficiency Glass Passivated Rectifier**

### **Features**

- Glass passivated chip junction
- · Low power loss, high efficiency
- Low leakage
- High Surge Capacity
- High switching speed
- High temperature soldering guaranteed: 260  $^{\circ}$ C/10 seconds, 0.375" (9.5mm) lead length
- RoHS and REACH Compliance



Case:	Transfer molded plastic						
Polarity:	Color band denots cathode end						
Ероху:	UL94V-0 rate flame retardant						
Lead:	Plated axial lead, solderable per MIL-STD-202E Method 208C						
Mounting Position:	Any						
Weight:	0.020 ounce, 0.56 gram						

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

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Symbol	Description	HER 251G	HER 252G	HER 253G	HER 254G	HER 255G	HER 256G	HER 257G	HER 258G	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage		100	200	300	400	600	800	1000	V	
VRMS	Max RMS Voltage		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	2.5							Α	TA=50°C	
IFSM	Peak Forward Surge Current	150								Α	JEDEC method
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150, -55 to +150							ဗ		
R <del>0</del> -JA	Typical Thermal Resistance	35							°C/W	Note 2	

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

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Symbol	Description	HER 251G	HER 252G	HER 253G	HER 254G	HER 255G	HER 256G	HER 257G	HER 258G	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.0 1.3				1.5 1.7				v	2.5A
IR(AV)	Maximum Full Load Reverse Current, Full Cycle average		100								0.375" (9.5mm) lead length at TL= $55^{\circ}$ C
IR	Max DC Reverse Current at Rated DC Blocking Voltage		5.0								TA=25℃ TA=125℃
TRR	Maximum reverse recovery time		50 70						nS	Note 1	
a	Typical Junction capacitance	30 35							pF	Measured at 1.0MHz / 4.0V	

#### Note:

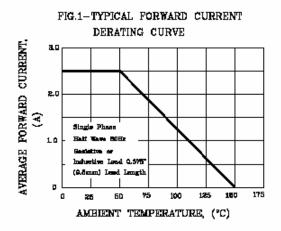
- 1. Reverse recovery test conditions: IF= 0.5A, IR=1.0A, IRR = 0.25A
- 2. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted

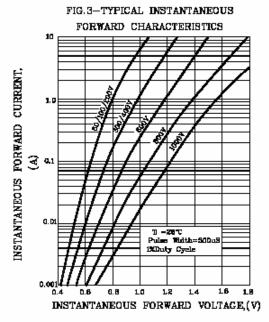
Rev. 0 2010-07-15

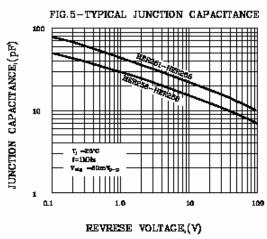


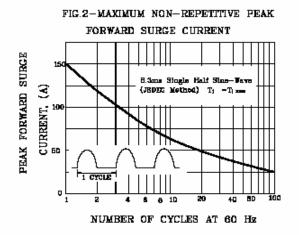
# **HER251G ~ HER258G**

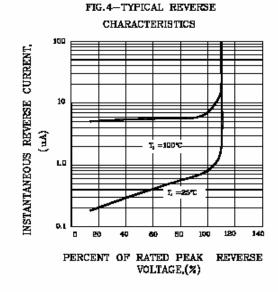
#### **RATINGS AND CHARACTERISTIC CURVES HER251G THRU HER258G**

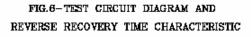


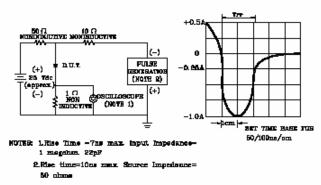








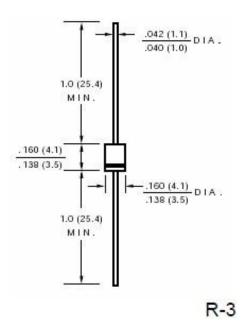






# **HER251G ~ HER258G**

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



### Contact us:

### **US HEADQUARTERS**

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