

## **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					
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* <sub>Ambient</sub>=25°C unless noted otherwise)

Symbol	Description		HER 252	HER 253	HER 254	HER 255	HER 256	HER 257	HER 258	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		100	200	300	400	600	800	1000	٧	
I(AV)	Max Average Forward Rectified Current 0.375" (9mm) lead length	2.5							А	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)

Symbol	Description	HER 251	HER 252	HER 253	HER 254	HER 255	HER 256	HER 257	HER 258	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℃	
IR	Max DC Reverse Current at Rated DC Blocking Voltage	5.0 250								μА	TA=25℃ TA=125℃	
TRR	Maximum reverse recovery time		50					70				
CI	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

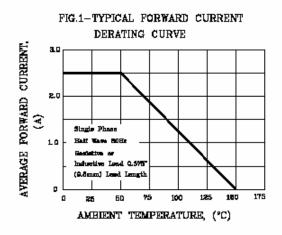


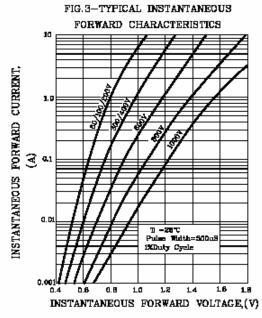


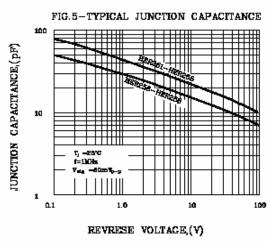


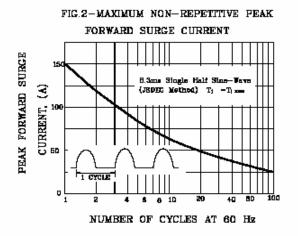
## **HER251 ~ HER258**

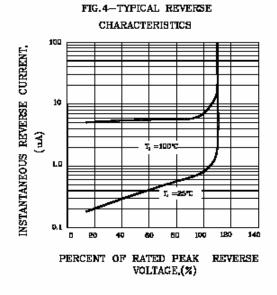
#### **RATINGS AND CHARACTERISTIC CURVES HER251 THRU HER258**

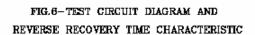


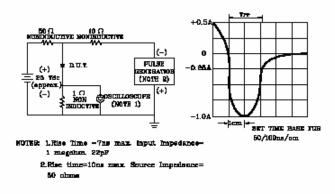








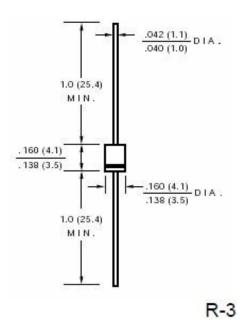






# HER251 ~ HER258

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



### Contact us:

## **US HEADQUARTERS**

MEI SEMI INC.

2902 Corvin Drive, Santa Clara, CA95051, USA

Tel: 1-408-733-0808 Fax: 1-408-733-2828