



# HER201 THRU HER208

## 2.0 AMPS. High Efficiency Rectifiers



Voltage Range  
50 to 1000 Volts  
Current  
2.0 Amperes

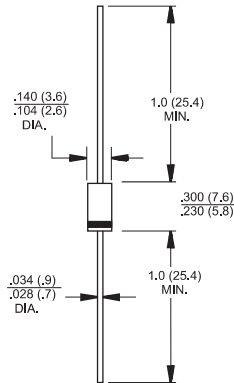
### Features

- ✧ Low forward voltage drop
- ✧ High current capability
- ✧ High reliability
- ✧ High surge current capability

### Mechanical Data

- ✧ Cases: Molded plastic
- ✧ Epoxy: UL 94V-O rate flame retardant
- ✧ Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- ✧ Polarity: Color band denotes cathode end
- ✧ High temperature soldering guaranteed: 260°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ✧ Weight: 0.40grams

### DO-15



Dimension in inches and (Millimeters)

## Maximum Rating 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	HER	HER	HER	HER	HER	HER	HER	Units	
		201	202	203	204	205	206	207	208		
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 @ $T_A = 55^\circ C$	$I_{(AV)}$	2.0								A	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	60								A	
Maximum Instantaneous Forward Voltage @ 2.0A	$V_F$	1.0			1.3		1.7			V	
Maximum DC Reverse Current @ $T_a=25^\circ C$ at Rated DC Blocking Voltage @ $T_a=100^\circ C$	$I_R$	5.0 100								 uA	
Maximum Reverse Recovery Time ( Note 1)	$T_{rr}$	50					75				nS
Typical Junction Capacitance ( Note 2 )	$C_j$	50					35				pF
Typical Thermal Resistance ( Note 3 )	$R_{\theta JA}$	60								°C/W	
Operating Temperature Range	$T_J$	-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 PCB.

## RATINGS AND CHARACTERISTIC CURVES (HER201 THRU HER208)

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

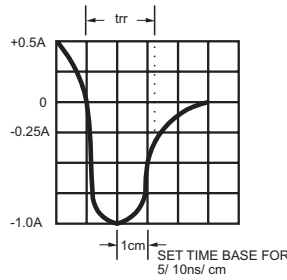
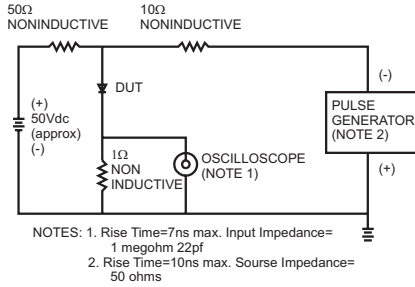


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

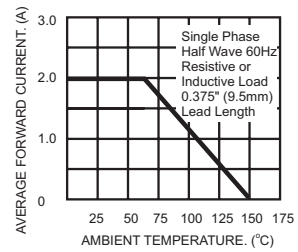


FIG.3- TYPICAL REVERSE CHARACTERISTICS

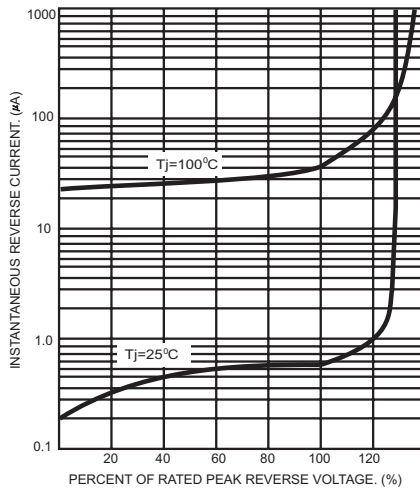


FIG.4- TYPICAL FORWARD CHARACTERISTICS

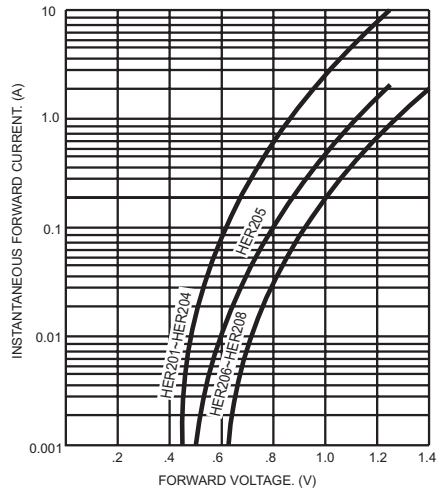


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

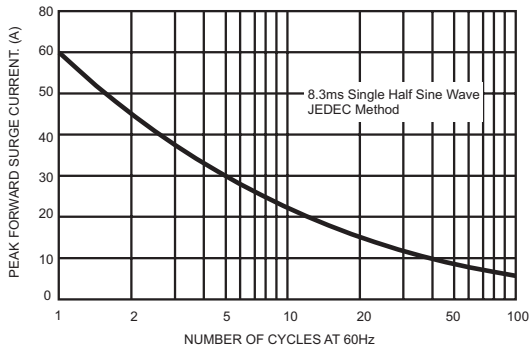


FIG.6- TYPICAL JUNCTION CAPACITANCE

