



Shanghai Lunsure Electronic  
Technology Co.,Ltd  
Tel:0086-21-37185008  
Fax:0086-21-57152769

# HER201 THRU HER208

## Features

- High Surge Current Capability
- High Reliability
- Low Forward Voltage Drop
- High Current Capability

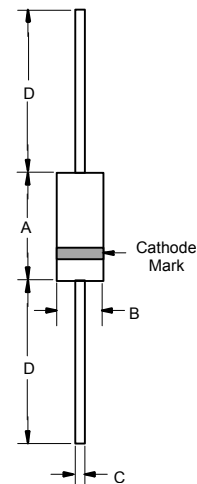
## Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- For capacitive load, derate current by 20%

Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
HER201	---	50V	35V	50V
HER202	---	100V	70V	100V
HER203	---	200V	140V	200V
HER204	---	300V	210V	300V
HER205	---	400V	280V	400V
HER206	---	600V	420V	600V
HER207	---	800V	560V	800V
HER208	---	1000V	700V	1000V

**2.0 Amp High  
Efficient Rectifiers  
50 to 1000 Volts**

## DO-15



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2 A	$T_A = 55^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	60A	8.3ms, half sine
Maximum Instantaneous Forward Voltage HER201-204 HER205 HER206-208	$V_F$	1.0V 1.3V 1.7V	$I_{FM} = 2.0\text{A};$ $T_A = 25^\circ\text{C}$
Reverse Current At Rated DC Blocking Voltage (Maximum DC)	$I_R$	5 $\mu\text{A}$ 100 $\mu\text{A}$	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Maximum Reverse Recovery Time HER201-205 HER206-208	$T_{rr}$	50ns 75ns	$I_F=0.5\text{A}, I_R=1.0\text{A},$ $I_{rr}=0.25\text{A}$
Typical Junction Capacitance HER201-205 HER206-208	$C_J$	50pF 30pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.230	.300	5.8	7.6	
B	.104	.140	2.6	3.6	
C	.028	.034	0.71	0.86	
D	1.000	---	25.40	---	

\*Pulse Test: Pulse Width 300 $\mu\text{sec}$ , Duty Cycle 1%

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## RATINGS AND CHARACTERISTIC CURVES

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

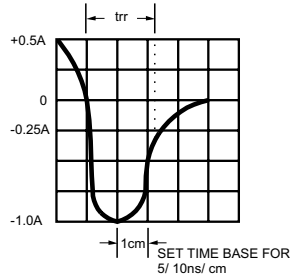
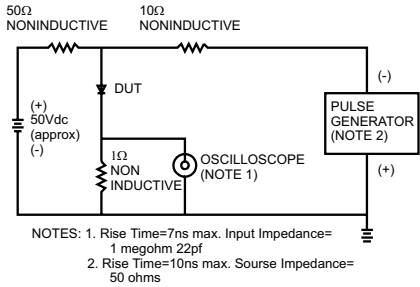


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

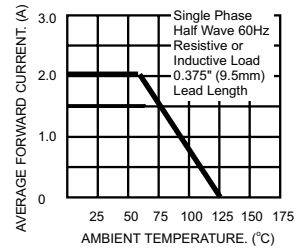


FIG.3- TYPICAL REVERSE CHARACTERISTICS

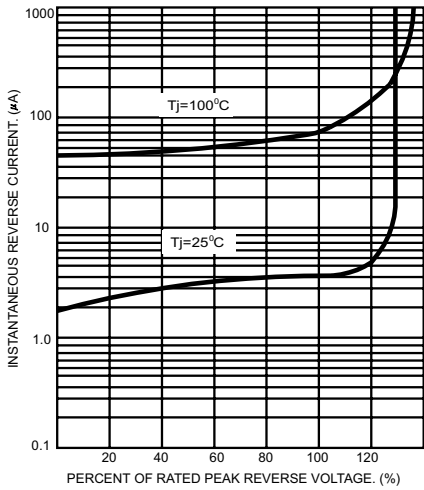


FIG.4- TYPICAL FORWARD CHARACTERISTICS

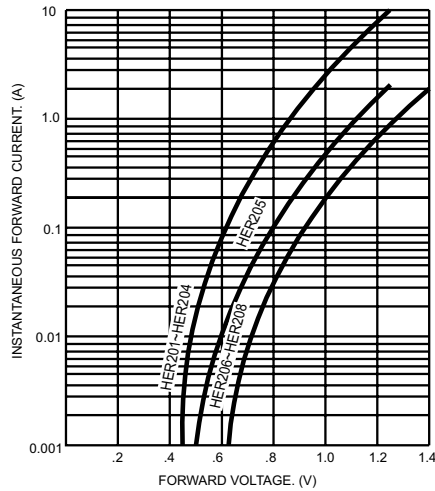


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

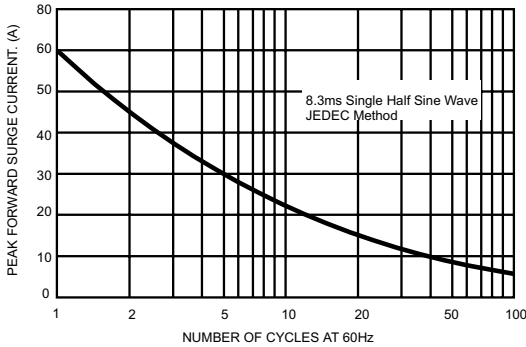


FIG.6- TYPICAL JUNCTION CAPACITANCE

