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# HER201G THRU HER208G

## Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- High Surge Current Capability
- High Reliability
- Low Forward Voltage Drop  
Epoxy meets UL 94 V-0 flammability rating  
Moisture Sensitivity Level 1

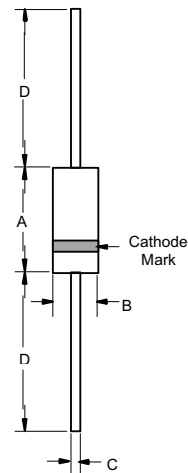
## Maximum Ratings

- Operating Temperature: -55°C to +150°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
HER201G	HER201G	50V	35V	50V
HER202G	HER202G	100V	70V	100V
HER203G	HER203G	200V	140V	200V
HER204G	HER204G	300V	210V	300V
HER205G	HER205G	400V	280V	400V
HER206G	HER206G	600V	420V	600V
HER207G	HER207G	800V	560V	800V
HER208G	HER208G	1000V	700V	1000V

**2.0 Amp Glass  
Passivated 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 HER201G-204G HER205G HER206G - 208G	$V_F$	1.0V 1.3V 1.7V	$I_{FM} = 2.0A$ ; $T_A = 25^\circ\text{C}$
Reverse Current At Rated DC Blocking Voltage (Maximum DC)	$I_R$	5 $\mu$ A 150 $\mu$ A	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
Maximum Reverse Recovery Time HER201G-205G HER206G-208G	$T_{rr}$	50ns 75ns	$I_F=0.5A, I_R=1.0A,$ $I_{rr}=0.25A$
Typical Junction Capacitance HER201G-205G HER206G-208G	$C_J$	50pF 30pF	Measured at 1.0MHz, $V_R=4.0V$

DIM	DIMENSIONS				NOTE
	MIN	MAX	MIN	MAX	
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 $\mu$ sec, Duty Cycle 1%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

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## RATINGS AND CHARACTERISTIC CURVES

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

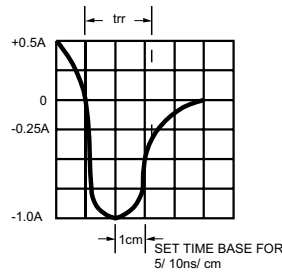
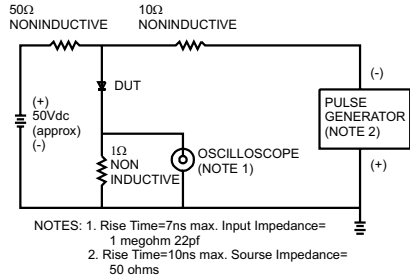


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

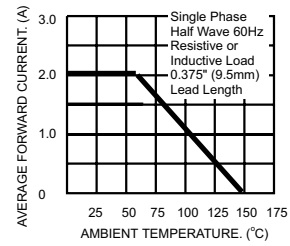


FIG.3- TYPICAL REVERSE CHARACTERISTICS

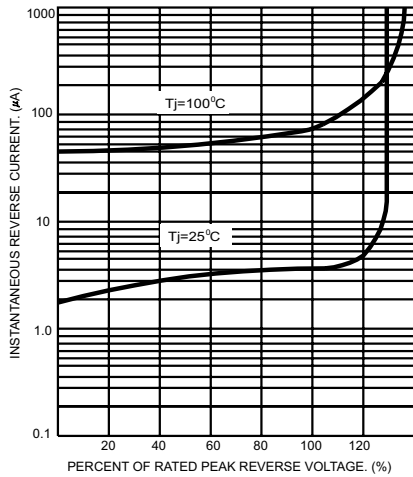


FIG.4- TYPICAL FORWARD CHARACTERISTICS

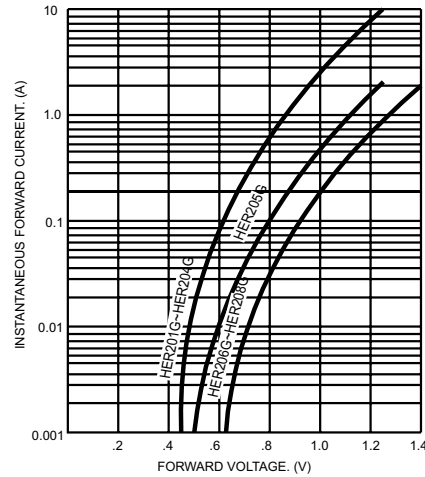


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

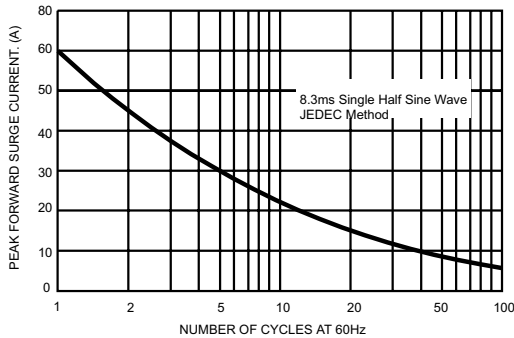


FIG.6- TYPICAL JUNCTION CAPACITANCE

