Micro Commercial Components
21201 Itasca Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

HER201G THRU HER208G

2.0 Amp Glass Passivated High Efficient Rectifiers 50 to 1000 Volts

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%

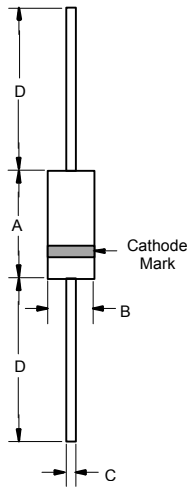
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
HER201G	---	50V	35V	50V
HER202G	---	100V	70V	100V
HER203G	---	200V	140V	200V
HER204G	---	300V	210V	300V
HER205G	---	400V	280V	400V
HER206G	---	600V	420V	600V
HER207G	---	800V	560V	800V
HER208G	---	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2 A	T_A = 55°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°C
Reverse Current At Rated DC Blocking Voltage (Maximum DC)	I_R	5µA 150µA	T_A = 25°C T_A = 125°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

*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

DO-15



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
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	---	

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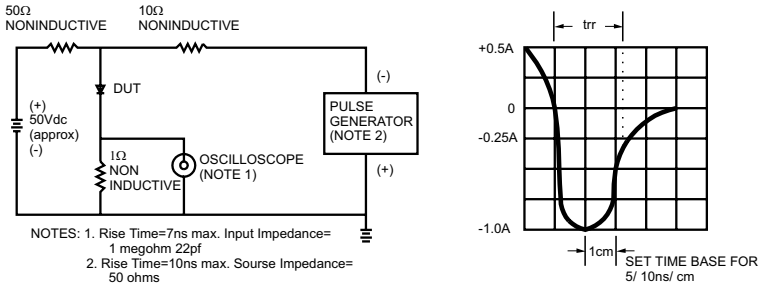
RATINGS AND CHARACTERISTIC CURVES

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



NOTES: 1. Rise Time=7ns max. Input Impedance= 1 megohm 22pf
2. Rise Time=10ns max. Sourse Impedance= 50 ohms

FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

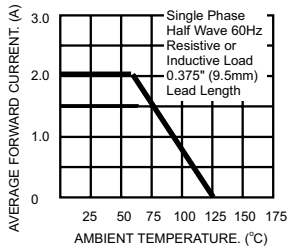


FIG.3- TYPICAL REVERSE CHARACTERISTICS

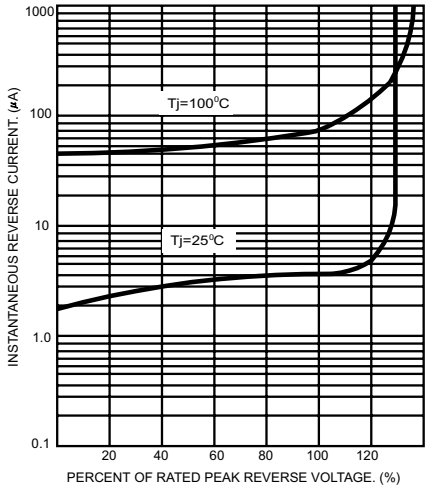


FIG.4- TYPICAL FORWARD CHARACTERISTICS

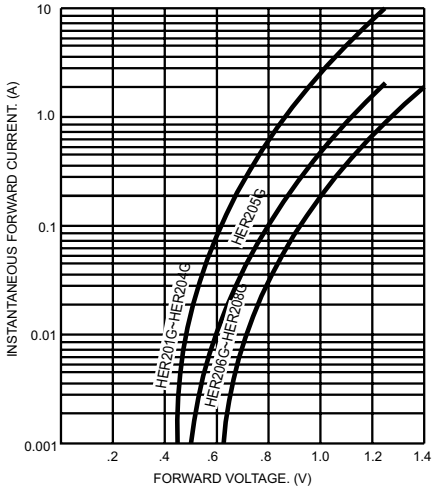


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

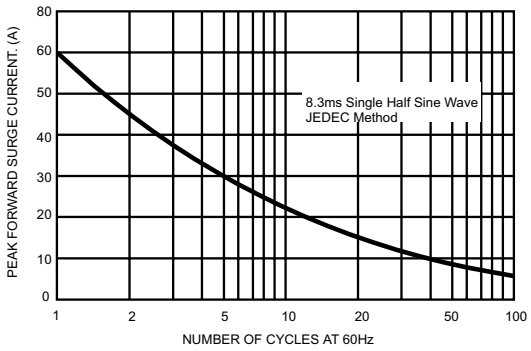


FIG.6- TYPICAL JUNCTION CAPACITANCE