Micro Commercial Components

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HER201G THRU HER208G

2.0 Amp Glass Passivated High Efficient Rectifiers 50 to 1000 Volts

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- High Surge Current Capability
- High Reliability
- Low Forward Voltage Drop
- Halogen free available upon request by adding suffix "-HF"
- 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%

MCC 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

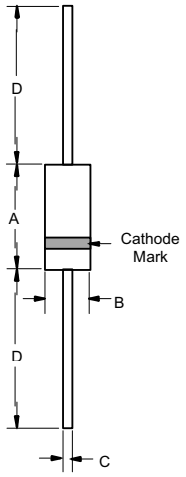
Electrical Characteristics @ 25°C Unless Otherwise Specified

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%

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

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	---	

RATINGS AND CHARACTERISTIC CURVES

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

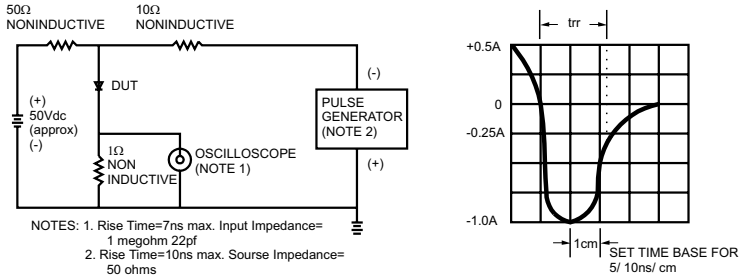


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

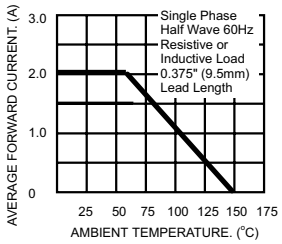


FIG.3- TYPICAL REVERSE CHARACTERISTICS

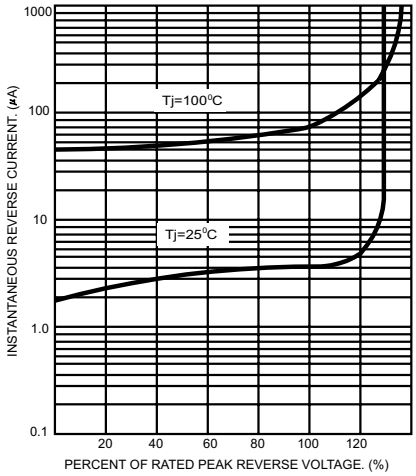


FIG.4- TYPICAL FORWARD CHARACTERISTICS

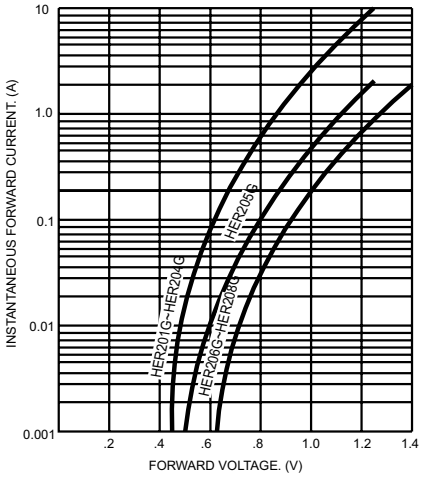


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

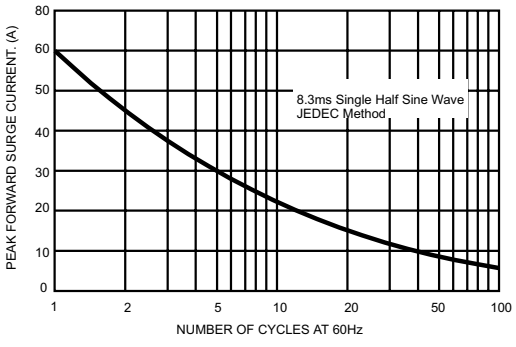
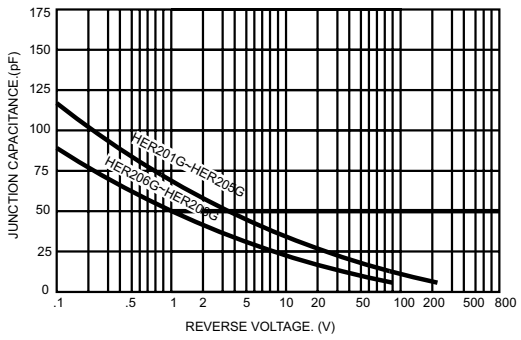


FIG.6- TYPICAL JUNCTION CAPACITANCE



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 4Kpcs/Reel
Part Number-AP	Ammo Packing: 3Kpcs/Ammo Box
Part Number-BP	Bulk: 25Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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