

HER101G THRU HER108G

1.0 Amp Glass Passivated High Efficient Rectifier 50 to 1000 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Fast Switching Speed
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance; 60°C/W Junction To Case
18°C/W Junction To Ambient

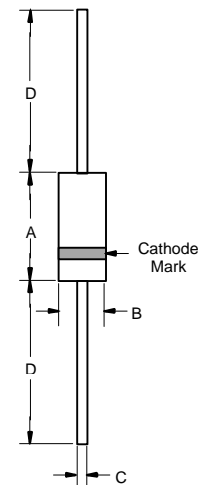
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
HER101G	HER101G	50V	35V	50V
HER102G	HER102G	100V	70V	100V
HER103G	HER103G	200V	140V	200V
HER104G	HER104G	300V	210V	300V
HER105G	HER105G	400V	280V	400V
HER106G	HER106G	600V	420V	600V
HER107G	HER107G	800V	560V	800V
HER108G	HER108G	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	$T_A = 55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_M = 1.0A;$ $T_J = 25^\circ\text{C}$
HER101G-104G		1.3V	
HER105G HER106G-108G		1.7V	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0uA 150uA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Maximum Reverse Recovery Time	T_{rr}	50ns	$I_F = 0.5A, I_R = 1.0A$ $I_{RR} = 0.25A$
HER101G-105G HER106G-108G		75ns	
Typical Junction Capacitance	C_J	20pF	Measured at 1.0MHz, $V_R = 4.0V$
HER101G-105G HER106G-108G		15pF	

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

DO-41



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.166	.205	4.10	5.20	
B	.080	.107	2.00	2.70	
C	.028	.034	.70	.90	
D	1.000	---	25.40	---	

HER101G thru HER108G

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

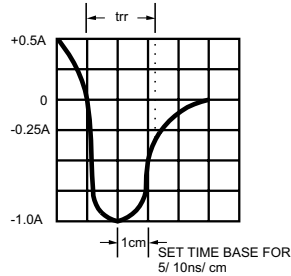
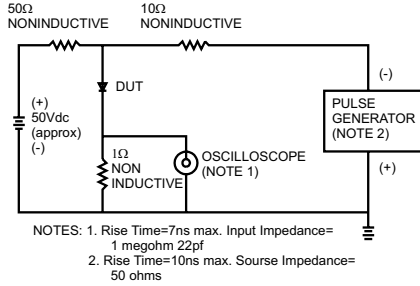


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

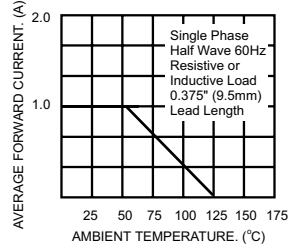


FIG.3- TYPICAL REVERSE CHARACTERISTICS

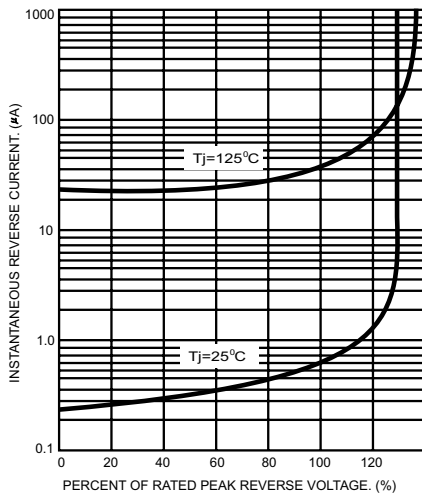


FIG.4- TYPICAL FORWARD CHARACTERISTICS

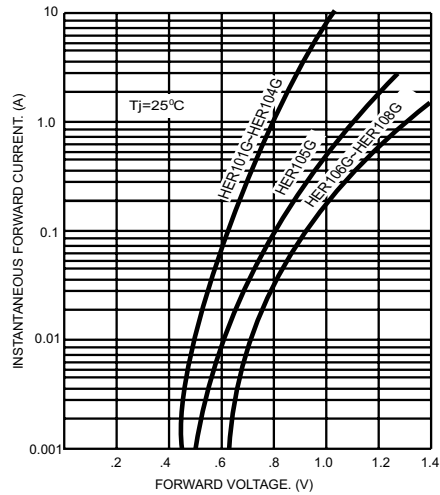


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

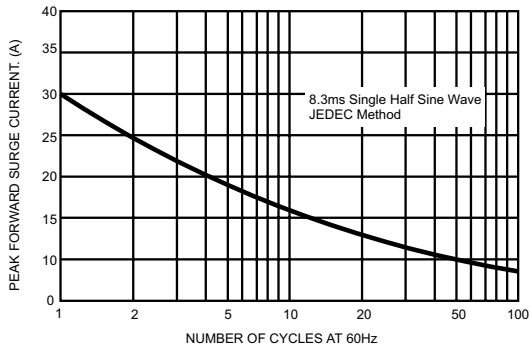
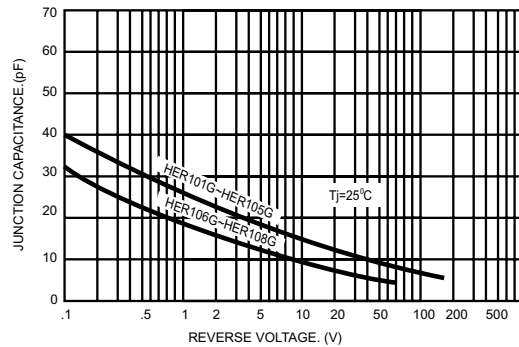


FIG.6- TYPICAL JUNCTION CAPACITANCE





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/Carton

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

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