

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Surge Current Capability And High Reliability
- Glass Passivated Junction
- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 37°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
HER601GP	HER601GP	50V	35V	50V
HER602GP	HER602GP	100V	70V	100V
HER603GP	HER603GP	200V	140V	200V
HER604GP	HER604GP	300V	210V	300V
HER605GP	HER605GP	400V	280V	400V
HER606GP	HER606GP	600V	420V	600V
HER607GP	HER607GP	800V	560V	800V
HER608GP	HER608GP	1000V	700V	1000V

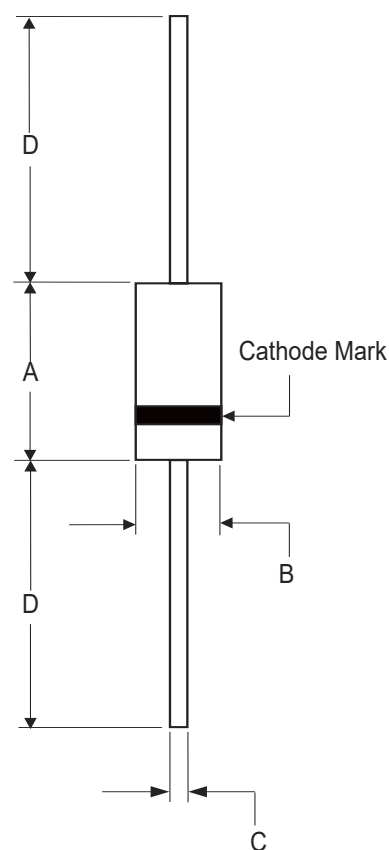
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6.0A	$T_A=55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	HER601GP-604GP: 1.1V HER605GP: 1.3V HER606GP-608GP: 1.7V	$I_{FM}=6.0\text{A};$ $T_J=25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA 200 μA	$T_J=25^\circ\text{C};$ $T_J=100^\circ\text{C}$
Typical Junction Capacitance	C_J	100pF 65pF	Measured at 1.0MHz $V_R=4.0\text{V}$
Maximum Reverse Recovery Time	t_{rr}	50ns 75ns	$I_F=0.5\text{A}; I_R=1.0\text{A};$ $I_{rr}=0.25\text{A}$

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

6.0 Amp High Efficient Rectifier 50 to 1000 Volts

R-6



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.340	0.360	8.60	9.10	
B	0.340	0.360	8.60	9.10	
C	0.048	0.052	1.20	1.32	
D	1.000	-----	25.40	-----	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

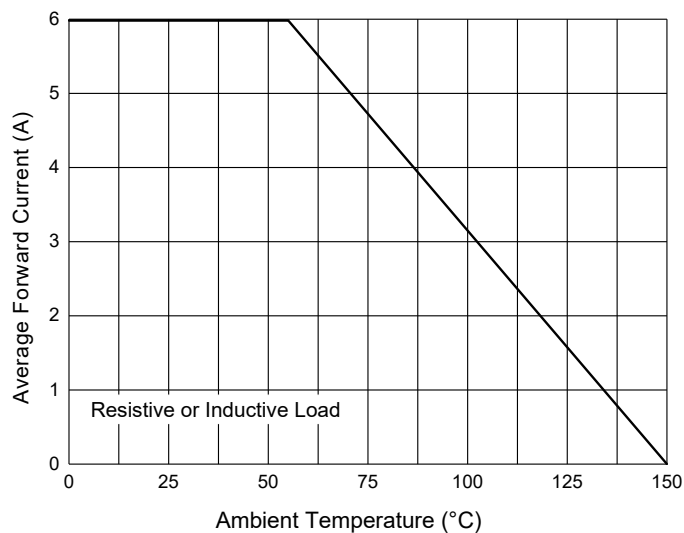


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

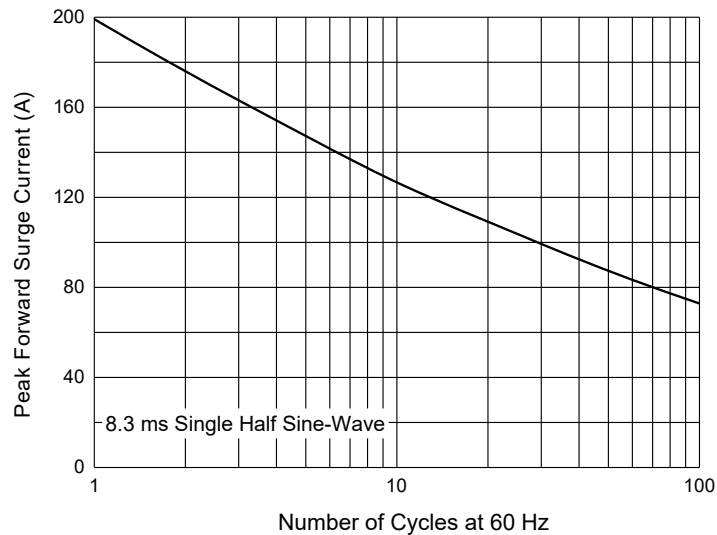


Fig. 3 - Typical Instantaneous Forward Characteristics

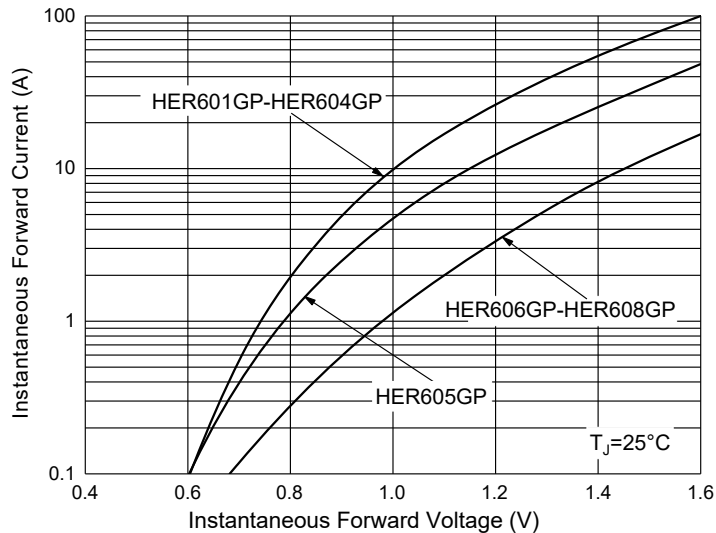
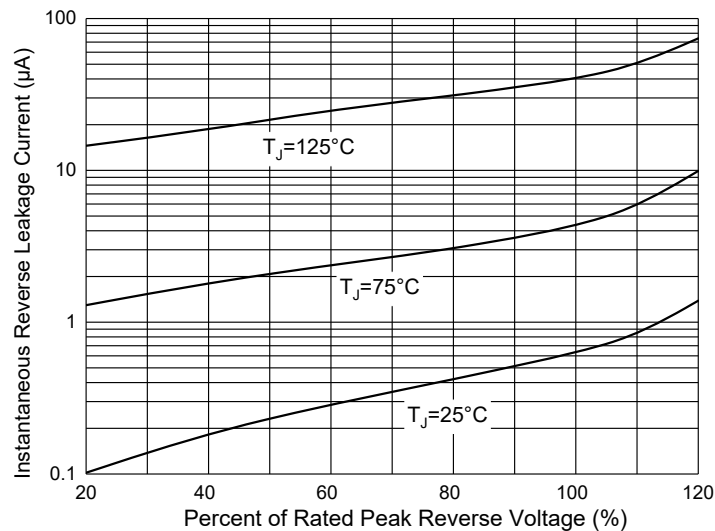


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:500pcs/Reel
Part Number-AP	Ammo Packing:450pcs/AmmoBox
Part Number-BP	Bulk: 200pcs/Box ;4.8Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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