Micro Commercial Components
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HER601 THRU HER608

6.0 Amp High Efficient Rectifiers 50 to 1000 Volts

Features

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

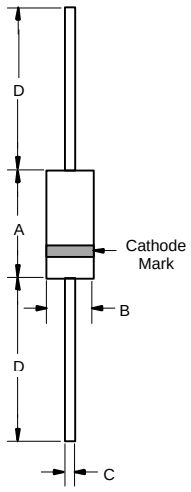
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
HER601	HER601	50V	35V	50V
HER602	HER602	100V	70V	100V
HER603	HER603	200V	140V	200V
HER604	HER604	300V	210V	300V
HER605	HER605	400V	280V	400V
HER606	HER606	600V	420V	600V
HER607	HER607	800V	560V	800V
HER608	HER608	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6 A	T_A = 55°C
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage HER601-604 HER605 HER606-608	V_F	 1.1V 1.3V 1.7V	 I_{FM} = 6.0A; T_A = 25°C
Reverse Current At Rated DC Blocking Voltage (Maximum DC)	I_R	10µA 200µA	T_A = 25°C T_A = 100°C
Maximum Reverse Recovery Time HER601-605 HER606-608	T_{rr}	 50ns 75ns	 I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
Typical Junction Capacitance HER601-605 HER606-608	C_J	 100pF 65pF	 Measured at 1.0MHz, V_R=4.0V

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

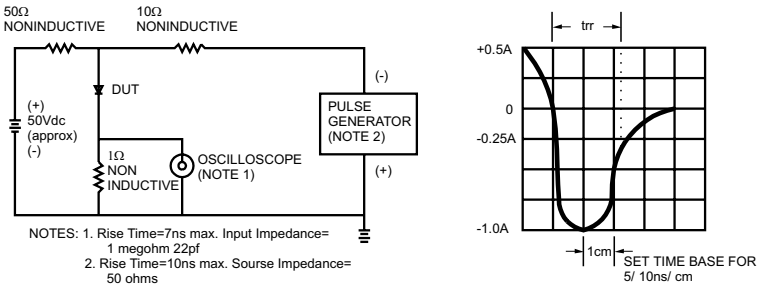
R-6



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.340	.360	8.60	9.10	
B	.340	.360	8.60	9.10	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

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

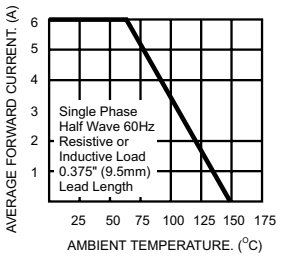


FIG.3- TYPICAL REVERSE CHARACTERISTICS

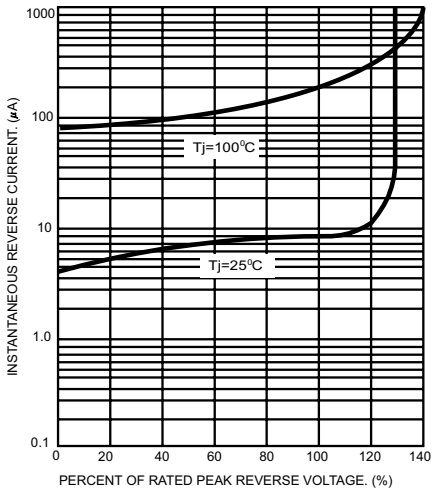


FIG.5- TYPICAL FORWARD CHARACTERISTICS

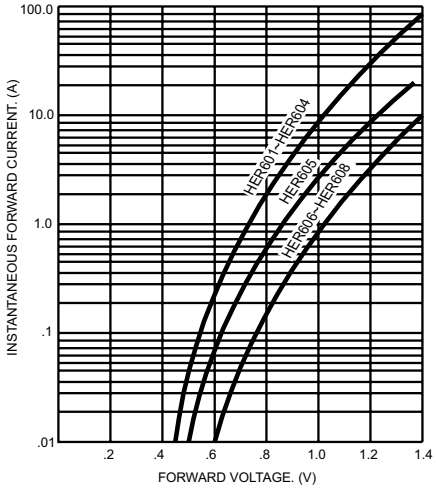


FIG.4- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

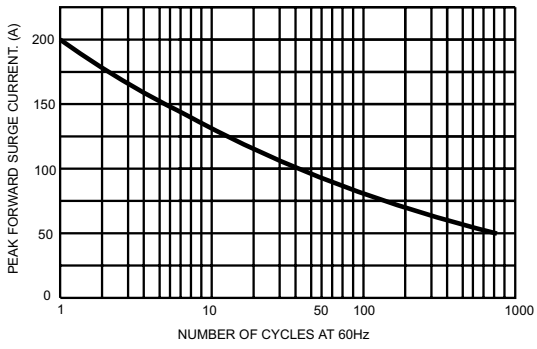
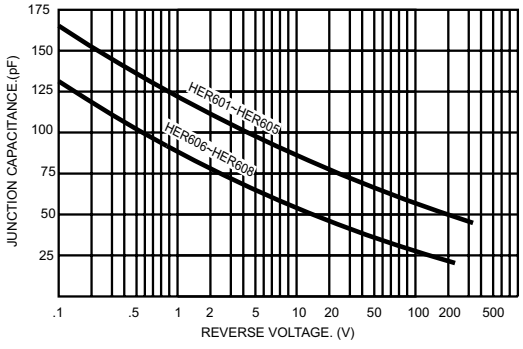


FIG.6- TYPICAL JUNCTION CAPACITANCE



Ordering Information :

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

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

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