



Micro Commercial Components



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HER501 Thru HER508

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Low forward voltage drop
- High reliability and High surge current capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

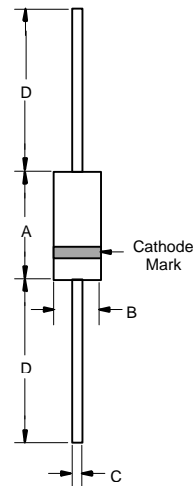
Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C
- Typical Thermal Resistance: 30°C/W Junction To Lead

**5.0 Amp High
Efficient Rectifiers
50 to 1000 Volts**

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
HER501	HER501	50V	35V	50V
HER502	HER502	100V	70V	100V
HER503	HER503	200V	140V	200V
HER504	HER504	300V	210V	300V
HER505	HER505	400V	280V	400V
HER506	HER506	600V	420V	600V
HER507	HER507	800V	560V	800V
HER508	HER508	1000V	700V	1000V

DO-201AD



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	5.0A	$T_A = 55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage HER501-HER504 HER505 HER506-HER508	V_F	1.0V 1.3V 1.7V	$I_{FM} = 5.0A$; $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10uA 200uA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Maximum Reverse Recovery Time HER501-HER505 HER506-HER508	T_{rr}	50ns 75ns	$I_F=0.5A, I_R=1.0A$ $I_{RR}=0.25A$
Typical Junction Capacitance HER501-HER505 HER506-HER508	C_J	100pF 65pF	Measured at 1.0MHz, $V_R=4.0V$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

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

HER501 THRU HER508

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

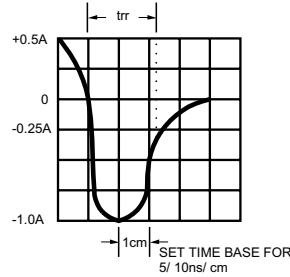
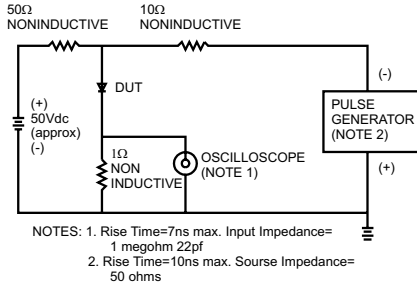


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

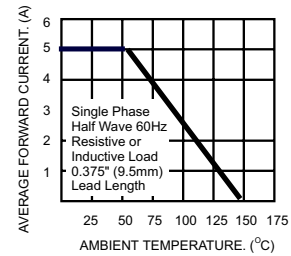


FIG.3- TYPICAL REVERSE CHARACTERISTICS

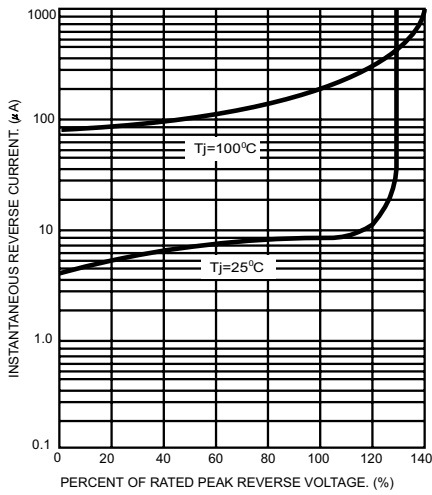


FIG.5- TYPICAL FORWARD CHARACTERISTICS

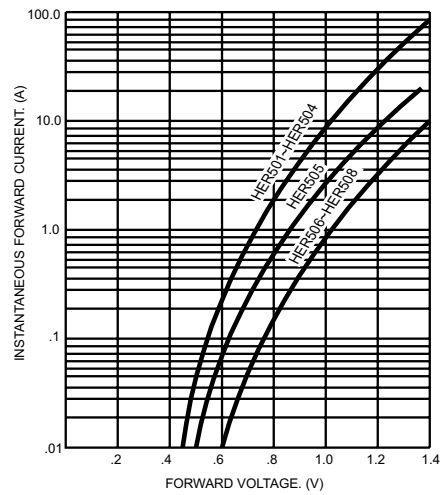


FIG.4- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

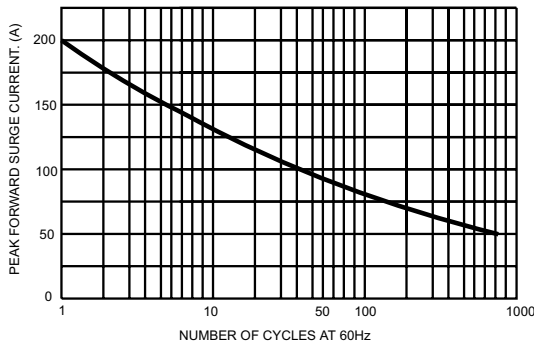
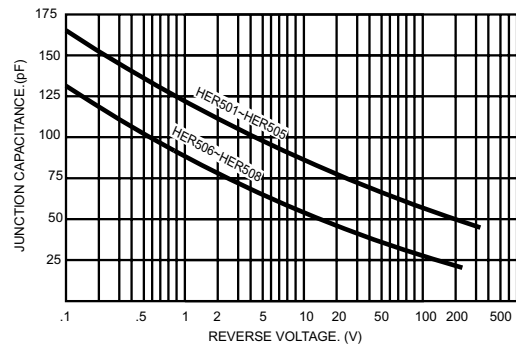


FIG.6- TYPICAL JUNCTION CAPACITANCE





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box
Part Number-BP	Bulk: 12Kpcs/Carton

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

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