

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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HER101S THRU HER108S

- High Surge Current Capability, High Reliability
- Halogen free available upon request by adding suffix "-HF"
- Low Forward Voltage Drop 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)

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- For capcitive load, derate current by 20%

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
HER101S	HER101S	50V	35V	50V
HER102S	HER102S	100V	70V	100V
HER103S	HER103S	200V	140V	200V
HER104S	HER104S	300V	210V	300V
HER105S	HER105S	400V	280V	400V
HER106S	HER106S	600V	420V	600V
HER107S	HER107S	800V	560V	800V
HER108S	HER108S	1000V	700V	1000V

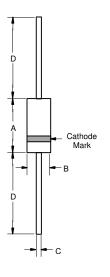
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0 A	T _A = 55°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage			
HER101S-104S HER105S HER106S -108S	V_{F}	1.0V 1.3V 1.7V	I _{FM} = 1.0A; T _A = 25°C
Reverse Current At Rated DC Blocking Voltage (Maximum DC)	I _R	5.0μA 100μA	T _A = 25°C T _A = 100°C
Maximum Reverse Recovery Time			
HER101S-105S HER106S-108S	T _{rr}	50ns 75ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance			
HER101S-105S HER106S-108S	C_J	20pF 15pF	Measured at 1.0MHz, V _R =4.0V

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

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

A-405



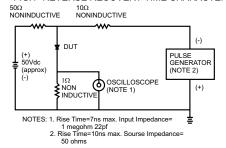
DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.166	.205	4.10	5.20			
В	.080	.107	2.00	2.70			
С	.021	.025	.53	.64			
D	1.000		25.40				

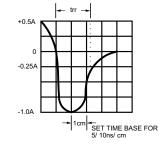
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RATINGS AND CHARACTERISTIC CURVES

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





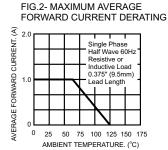
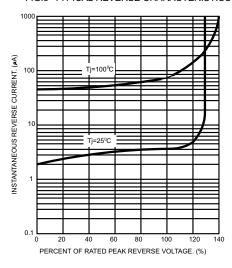
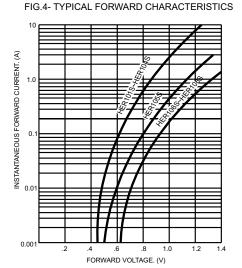
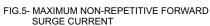
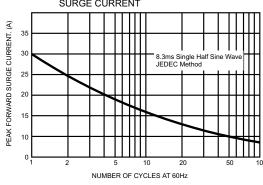


FIG.3- TYPICAL REVERSE CHARACTERISTICS

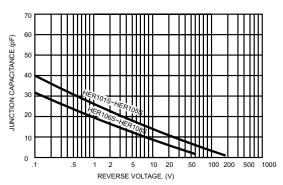














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Ordering Information:

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

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

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