

Micro Commercial Components

Features

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

COMPLIANT

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Micro Commercial Components

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- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

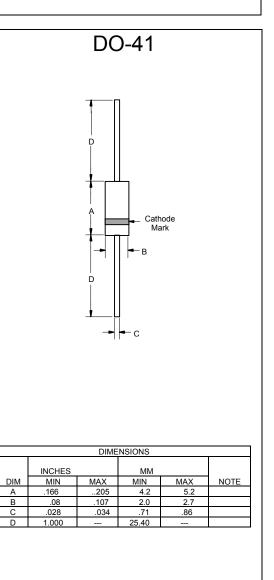
For capcitive load, derate current by 20%						
MCC	Device	Maximum Maximun		Maximum		
Catalog	Marking	Recurrent	RMS	DC		
Number		Peak Reverse	Voltage	Blocking		
		Voltage		Voltage		
HER101	HER101	50V	35V	50V		
HER102	HER102	100V	70V	100V		
HER103	HER103	200V	140V	200V		
HER104	HER104	300V	210V	300V		
HER105	HER105	400V	280V	400V		
HER106	HER106	600V	420V	600V		
HER107	HER107	800V	560V	800V		
HER108	HER108	1000V	700V	1000V		

Electrical Characteristics @ 25°C Unless Otherwise Specified

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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				
HER101-104	VF	1.0V	I _{FM} = 1.0A;	
HER105		1.3V	T _A = 25°C	
HER106-108		1.7V		
Reverse Current At	I _R	5.0mA	T _A = 25°C	
Rated DC Blocking		100mA	T _A = 100°C	
Voltage (Maximum DC)				
Maximum Reverse				
Recovery Time				
HER101-105	Trr	50ns	I _F =0.5A, I _R =1.0A,	
HER106-108		75ns	I _{rr} =0.25A	
Typical Junction				
Capacitance				
HER101-105	CJ	20pF	Measured at	
HER106-108		15pF	1.0MHz, V _R =4.0V	
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.				

HER101 THRU HER108

1.0 Amp High Efficient Rectifiers 50 to 1000 Volts



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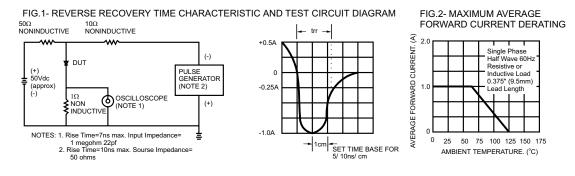
Revision: B

2013/01/01

HER101 THRU HER108



RATINGS AND CHARACTERISTIC CURVES



10

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FIG.3- TYPICAL REVERSE CHARACTERISTICS

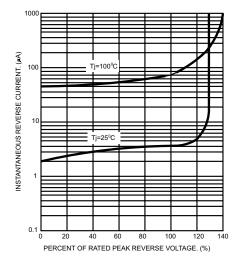


FIG.5- MAXIMUM NON-REPETITIVE FORWARD

50

100

8.3ms Single Half Sine War JEDEC Method

20

SURGE CURRENT

5

NUMBER OF CYCLES AT 60Hz

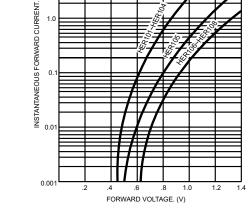
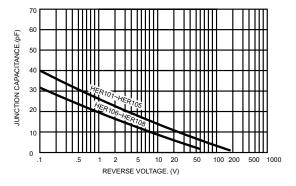


FIG.4- TYPICAL FORWARD CHARACTERISTICS

FIG.6- TYPICAL JUNCTION CAPACITANCE



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FORWARD SURGE CURRENT. (A)

JEAK PEAK

35

30

25

20

15

0 L

2

2 of 3



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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