

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Glass Passivated Chip Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

B	Symbol	Value								
Parameter						HER 105G			HER 108G	Unit
Peak Repetitive Reverse Voltage	V_{RRM}									
Working Peak Reverse Voltage	V_{RWM}	50	100	200	300	400	600	800	1000	V
DC Blocking Voltage	V_{R}									
RMS Reverse Voltage	V_{RMS}	35	70	140	210	280	420	560	700	٧
Average Rectified Forward Current @ T _A =55°C	$I_{F(AV)}$					1				Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	ı				3	30				Α
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	60						A		
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.735			A ² s					

Marking code

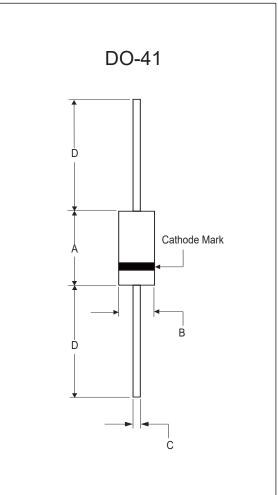
Part Number	Marking Code
HER101G	HER101G
HER102G	HER102G
HER103G	HER103G
HER104G	HER104G
HER105G	HER105G
HER106G	HER106G
HER107G	HER107G
HER108G	HER108G

Internal Structure

Pin Descri	ption	Simplified Outline	Graphic Symbol
1 Cathoo	le	<u></u> 1	
2 Anode		MCC J	1 0 2
		XXXXX: 2 Marking Code	

Note: 1. High temperature solder exemption applied, see EU directive annex 7a.

1 Amp High Efficient Rectifier 50 to 1000 Volts



DIMENSIONS						
DIM	INCHES		M	М	NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOTE	
Α	0.160	0.205	4.10	5.20		
В	0.080	0.107	2.00	2.70	Ф	
С	0.028	0.035	0.71	0.90	Ф	
D	1.000		25.40			



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		18		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		60		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage HER101G ~HER104G HER105G HER106G ~HER108G	V _F	I _F =1A;T _J =25°C			1.0 1.3 1.7	٧
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			5 150	μΑ
Reverse Recovery Time HER101G ~HER105G HER106G ~HER108G	t _{rr}	I _F =0.5A; I _R =1.0A; I _{rr} =0.25A;T _J =25°C			50 75	ns
Junction Capacitance HER101G ~HER104G HER105G HER106G ~HER108G	Сл	V _R =4V;f=1MHz;T _J =25°C		18 12 8		pF

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^{1.}Thermal Resistance from Junction to Ambient at 0.375" (9.5 mm) Lead Length.



Curve Characteristics

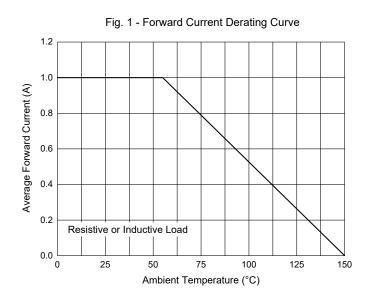


Fig. 3 - Typical Forward Characteristics

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HER101G ~HER104G
HER105G
HER105G ~HER108G

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Forward Voltage (V)

Fig. 5 - Typical Capacitance Characteristics

T_J=25°C
f=1MHz

HER101G ~HER104G

HER106G ~HER108G

HER105G

Reverse Voltage (V)

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

35

Question Specific Street Str

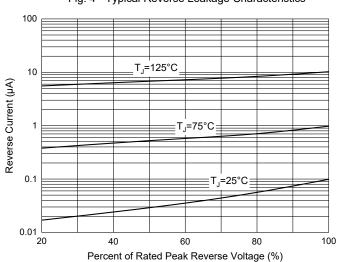


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:5Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk:1Kpcs/Box,50Kpcs/Carton

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

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