

1 Amp

High Efficient

Rectifier

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)

	Symbol	Value								
Parameter								HER 107G	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	V
Average Rectified Forward Current @ $T_A=55^{\circ}C$	I _{F(AV)}					1				A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I				3	0				А
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	60								
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.735			A²s					

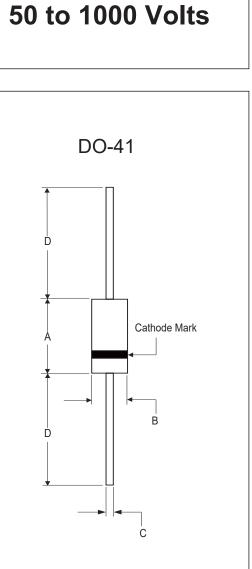
Marking code

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

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode	MCC J XXXXX J 2 Marking Code	1 oo 2

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



DIM	INC	HES	M	М	NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.160	0.205	4.10	5.20	
В	0.080	0.107	2.00	2.70	Φ
С	0.028	0.035	0.71	0.90	Φ
D	1.000		25.40		



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	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:

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

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;TJ=25°C			1.0 1.3 1.7	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°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	CJ	V _R =4V;f=1MHz;T _J =25°C		18 12 8		pF





Curve Characteristics

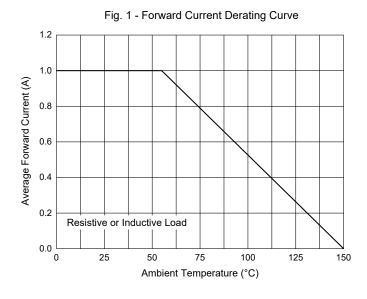


Fig. 3 - Typical Forward Characteristics

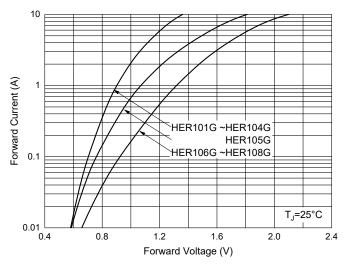
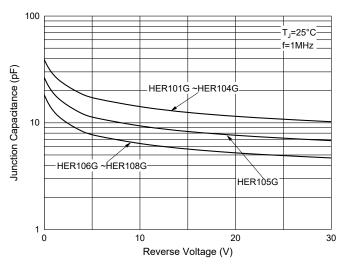


Fig. 5 - Typical Capacitance Characteristics



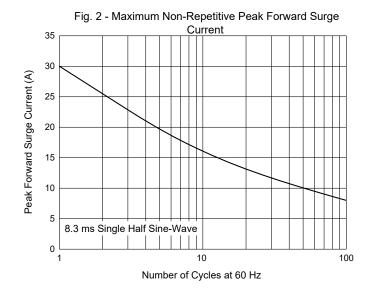
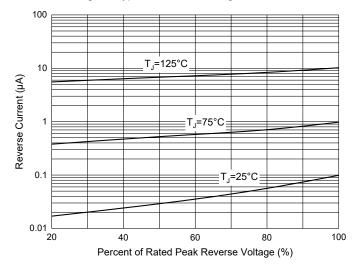


Fig. 4 - Typical Reverse Leakage Characteristics





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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages. *Micro Commercial Components Corp*. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources**. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC):

<u>HER103G-TP</u> <u>HER105G-TP</u> <u>HER101G-TP</u> <u>HER102G-TP</u> <u>HER106G-TP</u> <u>HER106G-AP</u> <u>HER101G-AP</u> <u>HER105G-AP</u> <u>HER101G-AP</u> <u>HER105G-AP</u>