

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)

D	Symbol	Value						11		
Parameter						HER 305G			HER 308G	
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 _L =75°C	I _{F(AV)}				:	3				A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1				1	25				А
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	250								
Current Squared Time @1ms≤t≤8.3ms	l ² t	64.8				A ² s				

Marking code

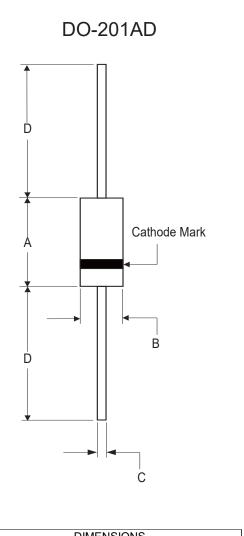
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Part Number	Marking Code
HER301G	HER301G
HER302G	HER302G
HER303G	HER303G
HER304G	HER304G
HER305G	HER305G
HER306G	HER306G
HER307G	HER307G
HER308G	HER308G

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode	MCC J XXXXX 2 XXXXX: 2 Marking Code	1 o <u></u> 2

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





DIMENSIONS					
DIM	INC	HES	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
А	0.287	0.374	7.30	9.50	
В	0.189	0.208	4.80	5.30	
С	0.048	0.052	1.20	1.30	
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		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		45		°C/W

Note:

1. Thermal Resistance from junction to lead and from junction to ambient with 0.375" (9.5 mm) Lead Length.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Мах	Unit
Forward Voltage HER301G ~HER304G HER305G HER306G ~HER308G	V _F	I _F =3A;T _J =25°C			0.95 1.30 1.70	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			10 200	μΑ
Reverse Recovery Time HER301G ~HER305G HER306G ~HER308G	t _{rr}	I _F =0.5A; I _R =1.0A; I _{rr} =0.25A;T _J =25°C			50 75	ns
Junction Capacitance HER301G ~HER304G HER305G HER306G ~HER308G	CJ	V _R =4V;f=1MHz;T _J =25°C		65 43 35		pF





Curve Characteristics

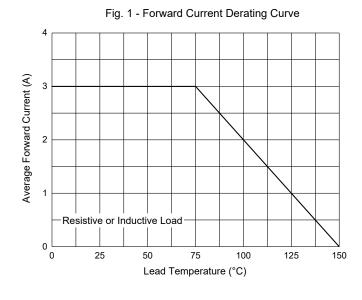


Fig. 3 - Typical Forward Characteristics

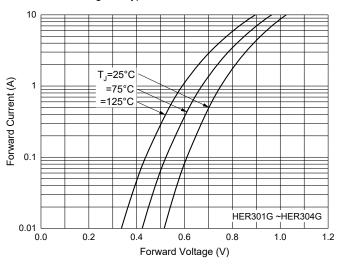
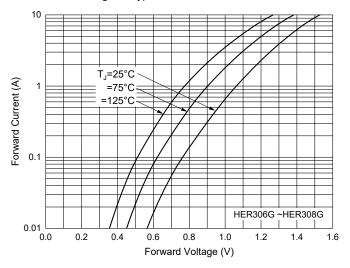


Fig. 5 - Typical Forward Characteristics



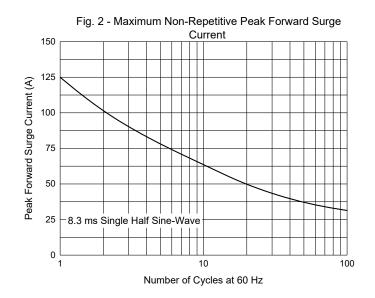


Fig. 4 - Typical Forward Characteristics

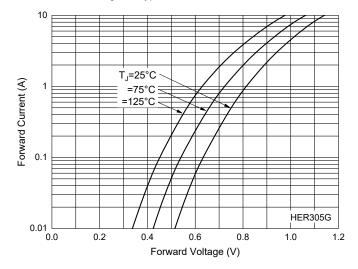
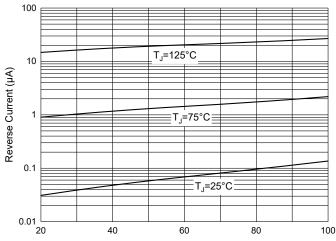


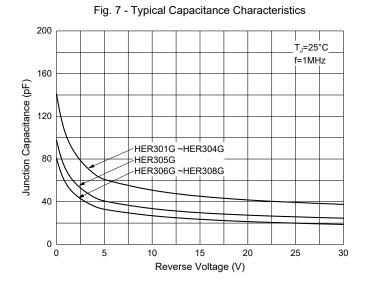
Fig. 6 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)



Curve Characteristics





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:500pcs/Box,12Kpcs/Carton

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

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