

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 20°C/W Junction to Ambient
- Typical Thermal Resistance: 5.6°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
HER301G	HER301G	50V	35V	50V
HER302G	HER302G	100V	70V	100V
HER303G	HER303G	200V	140V	200V
HER304G	HER304G	300V	210V	300V
HER305G	HER305G	400V	280V	400V
HER306G	HER306G	600V	420V	600V
HER307G	HER307G	800V	560V	800V
HER308G	HER308G	1000V	700V	1000V

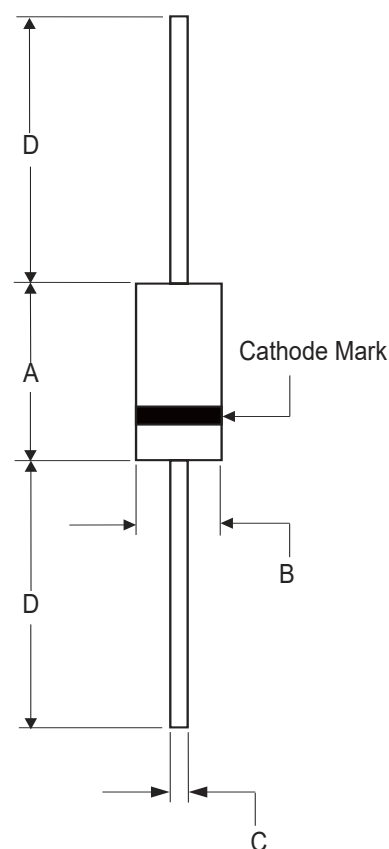
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	$T_A=55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	125A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage HER301G-304G HER305G HER306G-308G	V_F	0.95V 1.3V 1.7V	$I_{FM}=3.0A$; $T_J=25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μ A 200 μ A	$T_J=25^\circ\text{C}$; $T_J=100^\circ\text{C}$
Typical Junction Capacitance HER301G-305G HER306G-308G	C_J	80pF 50pF	Measured at 1.0MHz $V_R=4.0V$
Maximum Reverse Recovery Time HER301G-305G HER306G-308G	t_{rr}	50ns 75ns	$I_F=0.5A$; $I_R=1.0A$; $I_{rr}=0.25A$

Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

3.0 Amp High Efficient Rectifier 50 to 1000 Volts

DO-201AD



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.287	0.374	7.30	9.50	
B	0.189	0.208	4.80	5.30	
C	0.048	0.052	1.20	1.30	
D	1.000	-----	25.40	-----	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

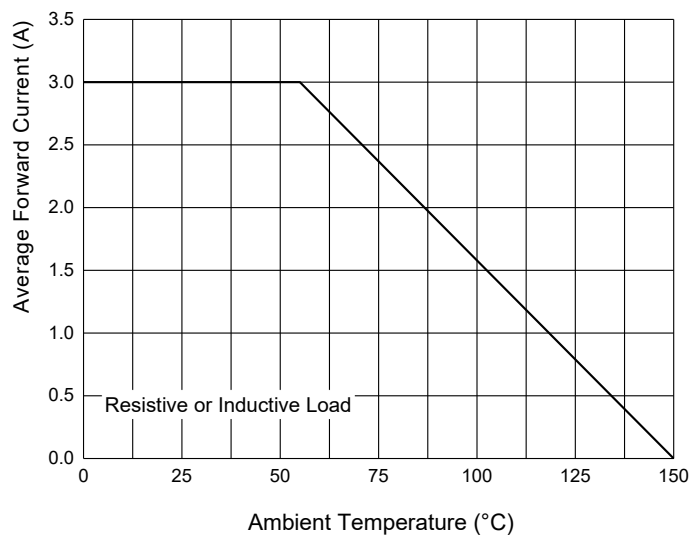


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

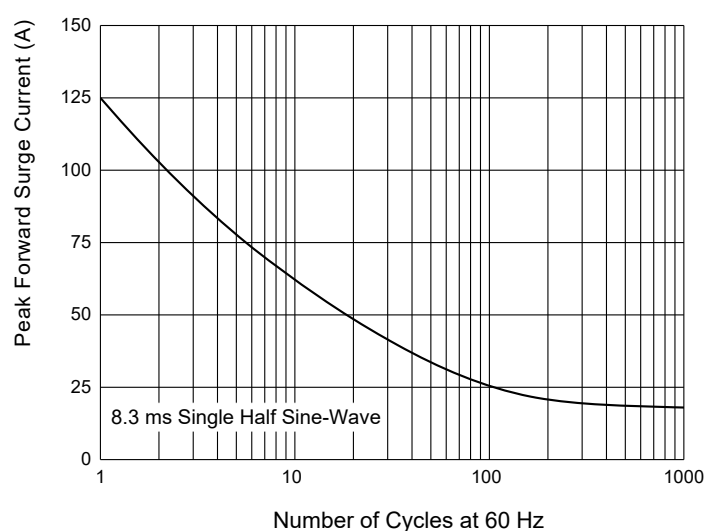


Fig. 3 - Typical Instantaneous Forward Characteristics

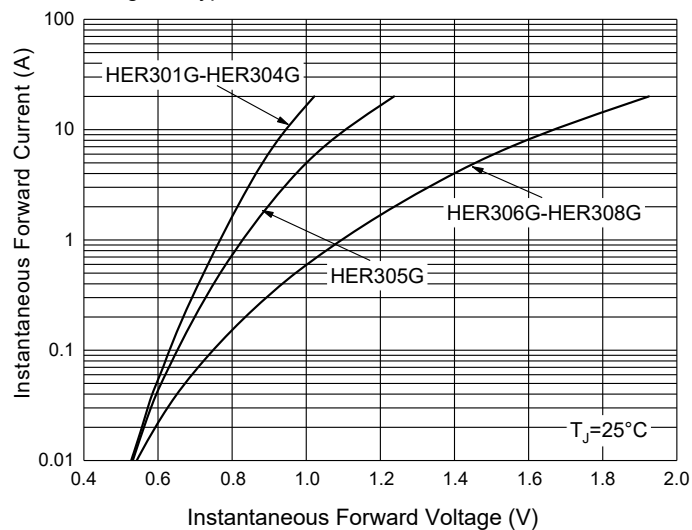
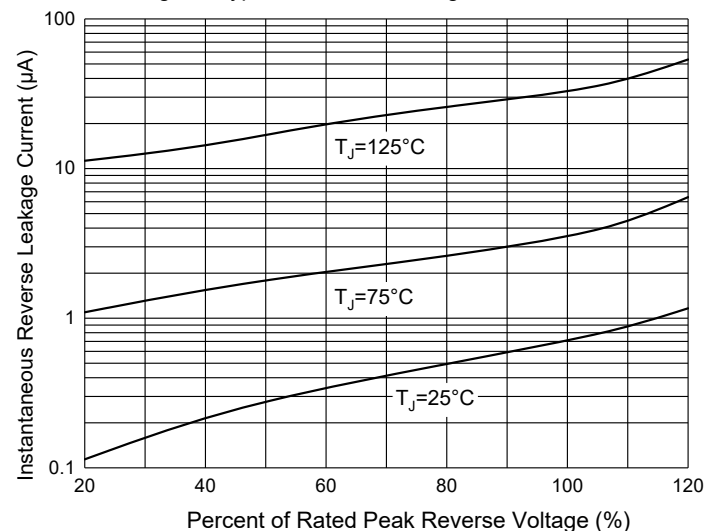


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:1.2Kpcs/Reel
Part Number-AP	Ammo Packing:1.2Kpcs/AmmoBox
Part Number-BP	Bulk: 12Kpcs/Carton

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

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