

## Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Low Leakage Current
- 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: 95°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1H1G	1H1G	50V	35V	50V
1H2G	1H2G	100V	70V	100V
1H3G	1H3G	200V	140V	200V
1H4G	1H4G	400V	280V	400V
1H5G	1H5G	600V	420V	600V
1H6G	1H6G	800V	560V	800V
1H7G	1H7G	1000V	700V	1000V

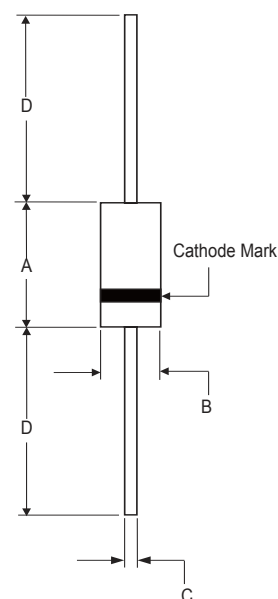
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	$T_A=55^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	30A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	$V_F$	1.0V 1.3V 1.7V	$I_{FM}=1.0A;$ $T_J=25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0 $\mu\text{A}$ 100 $\mu\text{A}$	$T_J=25^\circ\text{C};$ $T_J=125^\circ\text{C}$
Typical Junction Capacitance	$C_J$	20pF 15pF	Measured at 1.0MHz $V_R=4.0V$
Maximum Reverse Recovery Time	$t_{rr}$	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.

# 1.0 Amp High Efficient Rectifier 50 to 1000 Volts

R-1



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.116	0.140	2.90	3.50	
B	0.091	0.102	2.30	2.60	
C	0.020	0.024	0.50	0.60	
D	0.787	-----	20.00	-----	

## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

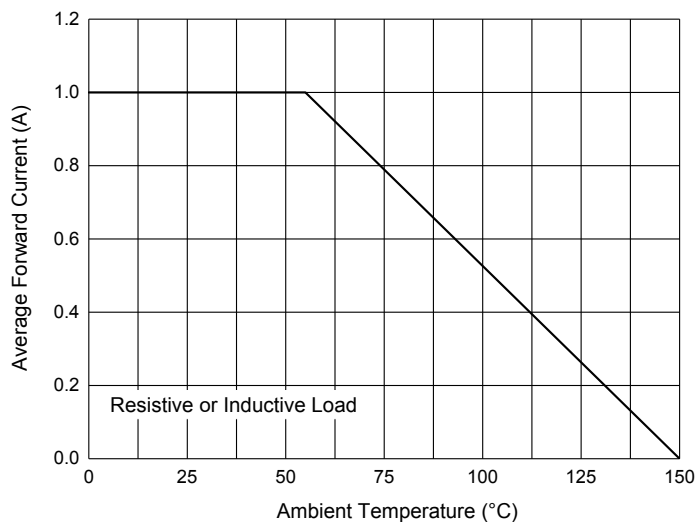


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

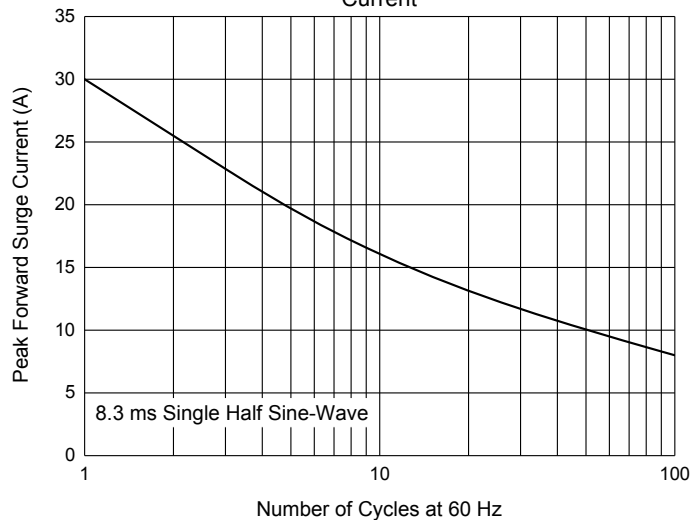


Fig. 3 - Typical Instantaneous Forward Characteristics

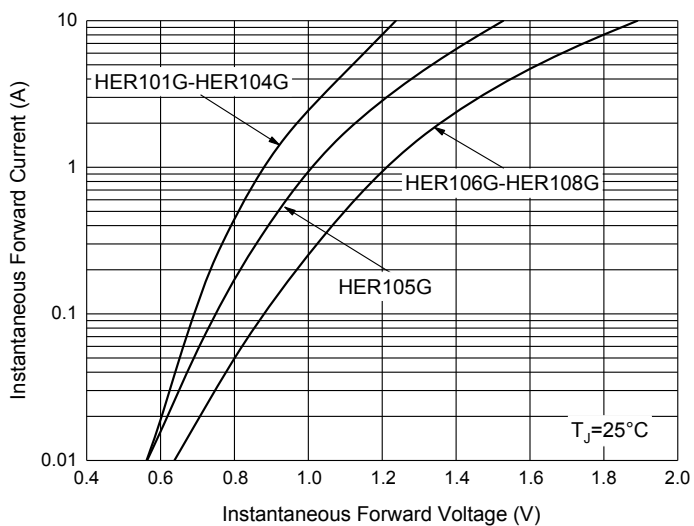
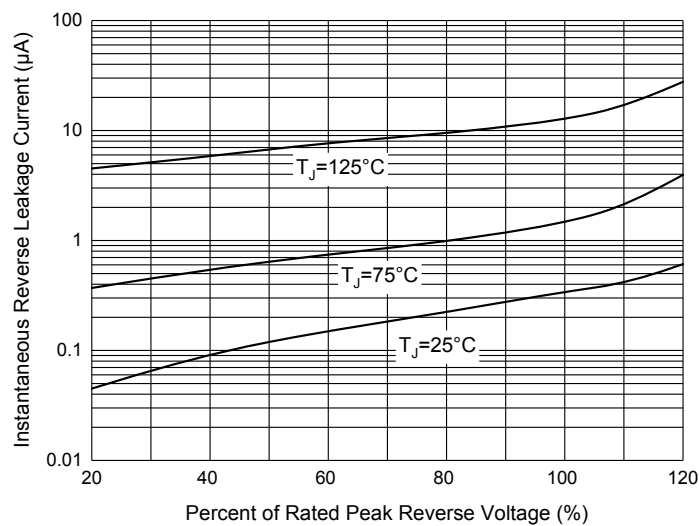


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel
Part Number-AP	Ammo Packing: 3Kpcs/AmmoBox

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

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