

**M·C·C·**

Micro Commercial Components



Micro Commercial Components  
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**1H1  
THRU  
1H7**

## Features

- Halogen free available upon request by adding suffix "-HF"
- Low Leakage Current
- Fast Switching for High Efficiency
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

## Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 60°C/W Junction To Case  
18°C/W Junction To Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1H1	1H1	50V	35V	50V
1H2	1H2	100V	70V	100V
1H3	1H3	200V	140V	200V
1H4	1H4	400V	280V	400V
1H5	1H5	600V	420V	600V
1H6	1H6	800V	560V	800V
1H7	1H7	1000V	700V	1000V

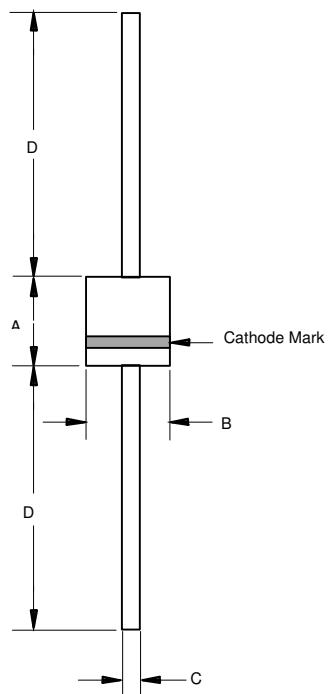
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	$T_A = 55^\circ C$
Peak Forward Surge Current	$I_{FSM}$	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 1H1-4 1H5 1H6-1H7	$V_F$	1.0V 1.3V 1.7V	$I_{FM} = 1.0A$ ; $T_J = 25^\circ C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0uA 150uA	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Maximum Reverse Recovery Time 1H1-1H5 1H6-1H7	$T_{rr}$	50ns 75ns	$I_F=0.5A$ , $I_R=1.0A$ $I_{RR}=0.25A$
Typical Junction Capacitance 1H1-1H5 1H6-1H7	$C_J$	20pF 15pF	Measured at 1.0MHz, $V_R=4.0V$

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

## 1.0 Amp High Efficient Rectifier 50 - 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	-----	



TM

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## Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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