

**Micro Commercial Components** 

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# 1H1 THRU 1H7

### 1.0 Amp High Efficient Rectifier 50 - 1000 Volts

### **Features**

- Low Leakage Current
- Fast Switching for High Efficiency
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

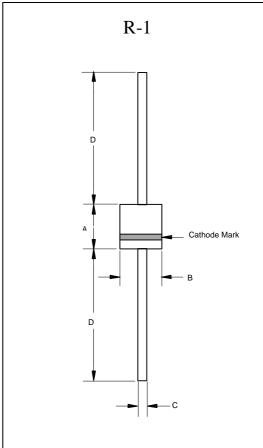
## **Maximum Ratings**

- Operating Temperature: -55°C to +125°C
   Storage Temperature: -55°C to +150°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	Device	Maximum Maximum		Maximum
Number	Marking	Recurrent RMS		DC
		Peak Reverse Voltage		Blocking
		Voltage		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	800V 560V	
1H7	1H7	1000V	700V	1000V

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

$ \begin{array}{ c c c c c c } \hline Current & & & & & & & \\ \hline Peak Forward Surge & & & & & \\ \hline Current & & & & & & \\ \hline Maximum & & & & & \\ Instantaneous & & & & \\ Forward Voltage & & & & \\ \hline 1H1-4 & & & & & \\ \hline 1H5 & & & & & \\ \hline 1H6-1H7 & & & & & \\ \hline Maximum DC & & & & \\ \hline Reverse Current At & & & \\ \hline Rated DC Blocking & & & \\ \hline Voltage & & & \\ \hline Maximum Reverse & \\ \hline Recovery Time & & & \\ \hline \end{array} $	Average Forward	1_,	1.0A	$T_A = 55^{\circ}C$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	_	$I_{F(AV)}$	1.04	1A - 33 C
CurrentMaximumInstantaneousVF $1.0V$ Forward Voltage $1.1.0V$ $1.1.1.4$ $1.1.0V$ $1.1.1.4$ $1.1.0V$ $1.1.1.1$ $1.1.0V$ $1.1.1.1$ $1.1.0V$ $1.1.1.1$ $1.1.0V$ $1.1.1$ $1.1.0V$		-	20.4	O Orean half airea
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		I <sub>FSM</sub>	30A	8.3ms, nair sine
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
Forward Voltage 1H1-4 1.0V 1.3V $I_{FM} = 1.0A$ ; 1H6-1H7 1.7V $T_J = 25^{\circ}C$ Maximum DC Reverse Current At Rated DC Blocking Voltage $I_R$ 5.0uA $I_J = 125^{\circ}C$ $I_J = 125^{\circ}C$	Maximum			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Instantaneous			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Forward Voltage	\ /		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		V <sub>F</sub>	1.0V	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1H5		1.3V	$I_{EM} = 1.0A$ :
	1H6-1H7		1.7V	
Rated DC Blocking Voltage  Maximum Reverse Recovery Time	Maximum DC			· ·
Rated DC Blocking Voltage  Maximum Reverse Recovery Time	Reverse Current At	l <sub>P</sub>	5.0uA	$T_1 = 25^{\circ}C$
Voltage  Maximum Reverse  Recovery Time	Rated DC Blocking	IX.	150uA	
Recovery Time				10 120
Recovery Time	Maximum Reverse			
T 1.000 VOI Y 111110   T	Recovery Time	т		
1H1-1H5   Trr   50ns   I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A	1H1-1H5	111	50ns	$I_{F}=0.5A, I_{R}=1.0A$
1H6-1H7 75ns I <sub>RR</sub> =0.25A	1H6-1H7		75ns	I <sub>RR</sub> =0.25A
Typical Junction	Typical Junction			
Capacitance	Capacitance	_		
1H1-1H5 C <sub>J</sub> 20pF Measured at	1H1-1H5	$C_J$	20pF	Measured at
1H6-1H7   15pF   1.0MHz, V <sub>R</sub> =4.0V	1H6-1H7		•	1.0MHz, V <sub>R</sub> =4.0V



DIMENSIONS									
DIM	INCHES		ММ		NOTE				
	MIN	MAX	MIN	MAX	NOTE				
Α	0.116	0.140	2.90	3.50					
В	0.091	0.102	2.30	2.60					
С	0.020	0.024	0.50	0.60					
D	0.787		20.00						



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