

Micro Commercial Components

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### **Features**

- High Reliability
- Low Leakage
- Low Forward Voltage Drop
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Polarity: Indicated by Cathode Band

# 1A1 THRU 1A7

# 1 Amp Miniature Plastic Silicon Rectifier 50 to 1000 Volts

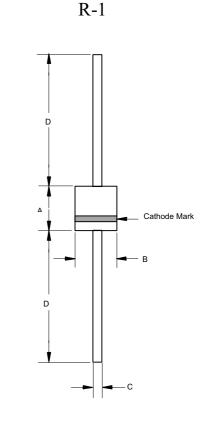
## **Maximum Ratings**

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 60°C/W Junction to Ambient

		Maximum		
MCC Catalog Number	Device Marking	Recurrent	Maximum	Maximum
		Peak	RMS	DC Blocking
		Reverse	Voltage	Voltage
		Voltage		
1A1	1A1	50V	35V	50V
1A2	1A2	100V	70V	100V
1A3	1A3	200V	140V	200V
1A4	1A4	400V	280V	400V
1A5	1A5	600V	420V	600V
1A6	1A6	800V	560V	800V
1A7	1A7	1000V	700V	1000V

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

Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>J</sub> =25°C
Peak Forward Surge Current	I <sub>FSM</sub>	30.0A	8.3ms half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.1V	I <sub>FM</sub> =1.0A T <sub>A</sub> =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>		TJ=25°C TJ=100°C
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V



DIMENSIONS								
DIM	INCHES		ММ		NOTE			
	MIN	МАХ	MIN	мах	NOTE			
А	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					

Note: 1. Valid provided that electrodes are kept at ambient temperature

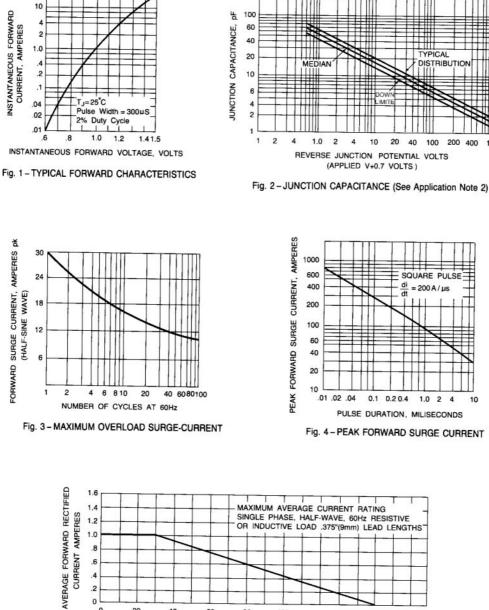
www.mccsemi.com

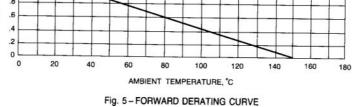
### 1A1 thru 1A7

20



1000







**Revision: 4** 

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2006/05/01



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