

**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth

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## 1N4001 THRU 1N4007

### **Features**

- Low Current Leakage
- Metalurgically Bonded Construction
- Low Cost
- 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

• Typical Thermal Resistance: 25 °C/W Junction to Lead at 0.375"

Lead Length P.C.B. Mounted

MCC	Davisa	Massinassuna	Massinassusa	Marriagona
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent RMS		DC
Number		Peak	Voltage	Blocking
		Reverse		Voltage
		Voltage		
1N4001	1N4001	50V	35V	50V
1N4002	1N4002	100V	70V	100V
1N4003	1N4003	200V	140V	200V
1N4004	1N4004	400V	280V	400V
1N4005	1N4005	600V	420V	600V
1N4006	1N4006	800V	560V	800V
1N4007	1N4007	1000V	700V	1000V

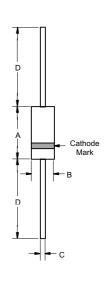
### Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	$I_{F(AV)}$	1.0A	T <sub>A</sub> = 75°C			
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine			
Maximum Instantaneous Forward Voltage	$V_{F}$	1.1V	I <sub>FM</sub> = 1.0A; T <sub>J</sub> = 25°C*			
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μA 50μA	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C			
Typical Junction Capacitance	С	15pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V			
Maximum Reverse Recovery Time	$T_{rr}$	2.0us	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A			

<sup>\*</sup>Pulse test: Pulse width 300  $\mu$ sec, Duty cycle 2%

# 1 Amp Rectifier 50 - 1000 Volts

# DO-41



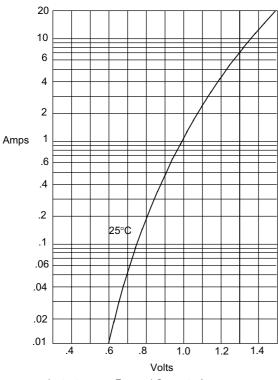
DIMENSIONS								
	INCHES		MM					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	.166	.205	4.10	5.20				
В	.080	.107	2.00	2.70				
С	.028	.034	.70	.90				
ם	1 000		25.40					

### 1N4001 thru 1N4007

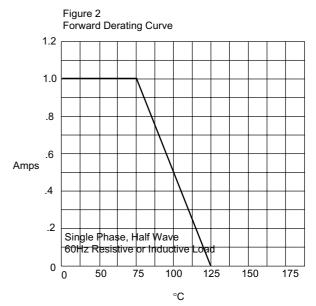
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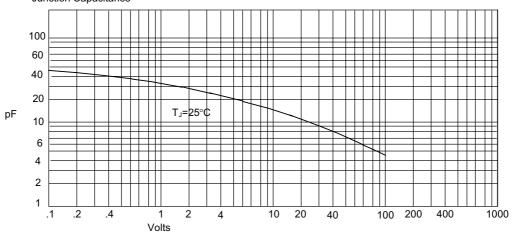


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes/ersus Ambient Temperature - $^{\circ}$ C

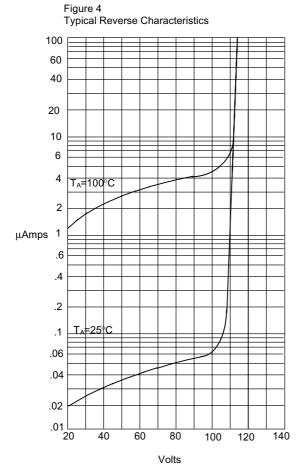


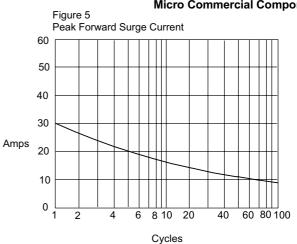


### 1N4001 thru 1N4007



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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts



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