

**Micro Commercial Components** 



**Micro Commercial Components** 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

## 1N4001 THRU 1N4007

### **Features**

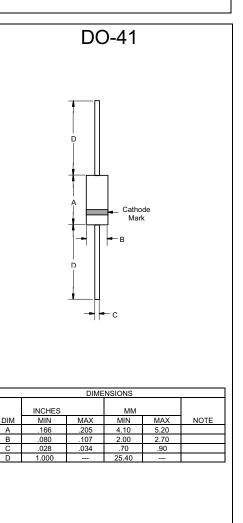
- Low Current Leakage and Low Cost
- Lead Free Finish/RoHS Compliant (Note1)("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### **Maximum Ratings**

- Operating Temperature: -55°C to +150°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							ounted	
	MCC	Device		Maximum		Ма	aximum	Maximum	
	Catalog	Marking		Recurrent			RMS	DC	
	Number	_		Peak		V	'oltage	Blocking	
				Reverse				Voltage	
				Voltage					
	1N4001	1N4001		50V			35V	50V	
	1N4002	1N4002		100V			70V	100V	
	1N4003	1N400	)3	200V			140V	200V	
	1N4004	1N4004		400V			280V	400V	
	1N4005	1N4005		600V			420V	600V	
	1N4006	1N4006		800V			560V	800V	
	1N4007	1N400	)7	1000V			700V	1000V	
Electrical Characteristics @ 25°C Unless Otherwise Specified									
	Average Forward		I <sub>F(AV)</sub>		1.0A		T <sub>A</sub> = 75°C		
	Current			/					
	Peak Forward	Surge		I <sub>FSM</sub>	30A		8.3ms, half sine		
	Current	2							





\*Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

 $V_{F}$ 

 $I_R$ 

CJ

Trr

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I<sub>FM</sub> = 1.0A;

T<sub>J</sub> = 25°C\*

T<sub>J</sub> = 25°C

T<sub>J</sub> = 125°C

Measured at

I<sub>rr</sub>=0.25A

1.0MHz, V<sub>R</sub>=4.0V

I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A,

А

1.1V

5.0µA

50µA

15pF

2.0us

**Revision:** A

Maximum

Voltage

Instantaneous

Maximum DC

Forward Voltage

**Reverse Current At** 

Rated DC Blocking

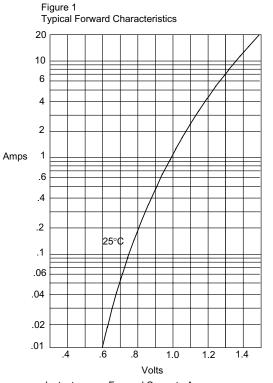
Maximum Reverse

**Typical Junction** 

**Recovery Time** 

Capacitance

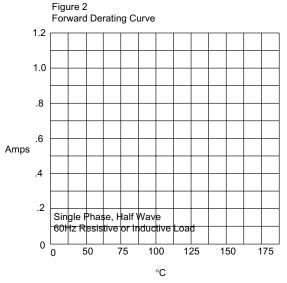
#### 1N4001 thru 1N4007



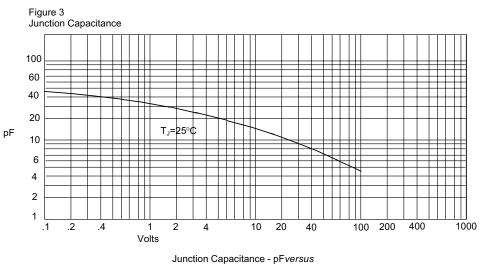
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

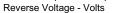


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Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



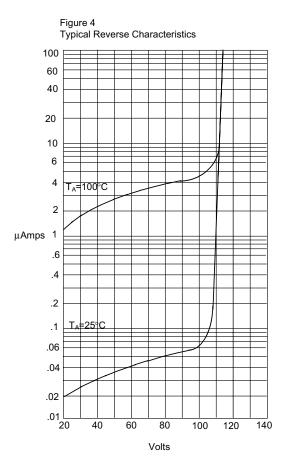


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2011/01/01

#### 1N4001 thru 1N4007



**Micro Commercial Components** Figure 5 Peak Forward Surge Current 60 50 40 30 Amps 20 10 0 1 2 4 6 8 10 20 40 60 80 100 Cycles

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

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



#### **Ordering Information :**

Device	Packing				
Part Number-TP	Tape&Reel: 5Kpcs/Reel				
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box				
Part Number-BP	Bulk: 50Kpcs/Carton				

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