

Micro Commercial Components

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

1N4001 THRU 1N4007

Features

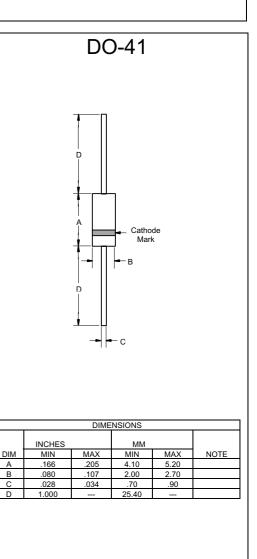
- Low Current Leakage and Low Cost
- Lead Free Finish/RoHS Compliant (Note1)("P"Suffix designates Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

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							
MCC	Devic	e Maxi	Maximum		iximum	Maximum	
Catalog	Markir	ng Recu	g Recurrent		RMS	DC	
Number		Pe	eak	V	oltage	Blocking	
		Rev	Reverse			Voltage	
		Volt	age				
1N4001	1N400	•	50V		35V	50V	
1N4002	1N400		100V		70V	100V	
1N4003	1N400		200V		140V	200V	
1N4004	1N400		70C	280V		400V	
1N4005	1N400	05 60	70C	420V		600V	
1N4006	1N400	- 01	70C	560V		800V	
1N4007	1N400	07 10	1000V		700V	1000V	
Electrical Characteristics @ 25°C Unless Otherwise Specified							
Average Forward Current		I _{F(AV)}	1.0A T _A = 75		°C		
Peak Forward Surge Current		I _{FSM}	30A	A 8.3ms,		half sine	
Maximum Instantaneous Forward Voltage		V _F	1.1\	/	I _{FM} = 1.0A; T _J = 25°C*		
Maximum DC Reverse Current At Rated DC Blocking Voltage		I _R	5.0μ 50μ		$T_{J} = 25^{\circ}$ $T_{J} = 12^{\circ}$	٥c	
Typical Junction Capacitance		CJ	C _J 15pl		Measured at 1.0MHz, V _R =4.0V		
Maximum Reverse		T _{rr}	2.0u	2.0us I _F =0.5A, I _R		, I _R =1.0A,	

1 Amp Rectifier 50 - 1000 Volts



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

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

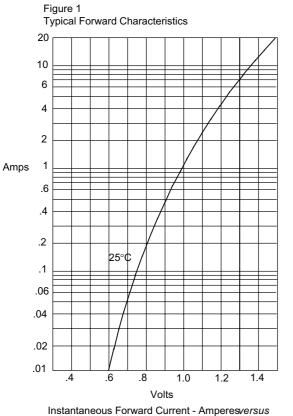
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I_{rr}=0.25A

Revision: 9

Recovery Time

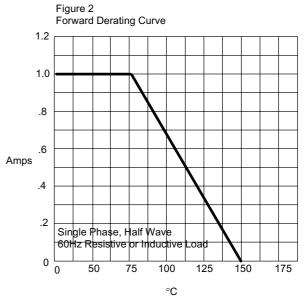
1N4001 thru 1N4007



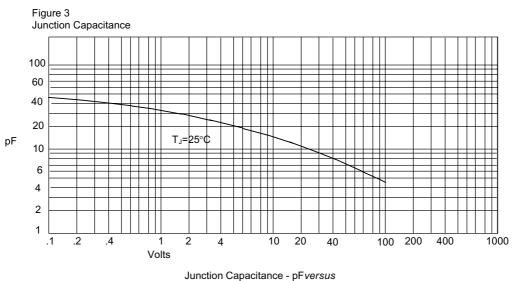
Instantaneous Forward Voltage - Volts



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

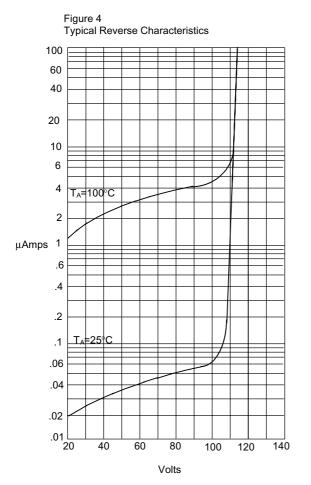


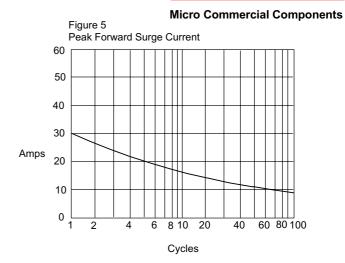
Reverse Voltage - Volts

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1N4001 thru 1N4007







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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Ordering Information

Device	Packing			
(Part Number)-TP	Tape&Reel 5Kpcs/Reel			
(Part Number)-AP	Ammo Packing;5Kpcs/AmmoBox			
(Part Number)-BP	Bulk;1Kpcs/Box			

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