

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)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

Maximum Ratings

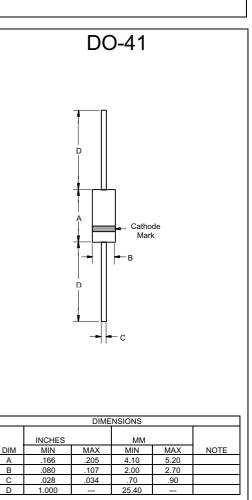
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 25°C/W Junction to Lead at 0.375"

Lead Length P.C.B. Mounted								
MCC	Device		Maximum		Maximum		Maximum	
Catalog	Marking		Recurrent		RMS		DC	
Number	Ŭ		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								
Average Forward		I _{F(AV)}		1.0A	١	T _A = 75°C		
Current			. ,					
Peak Forward Surge			I _{FSM}	30A		8.3ms, half sine		
Current		-						
Maximum								
Instantaneous		V _F		1.1\	/	I _{FM} = 1.0A;		
Forward Voltage						$T_{J} = 25^{\circ}C^{*}$		
Maximum DC								
Reverse Current At		I _R		5.0µ/	A	T _J = 25°C		
Rated DC Blocking				50µA		T _J = 125°C		
Voltage								
Typical Junction			CJ	15pF		Measured at		
Capacitance						1.0MHz, V _R =4.0V		
Maximum Reverse			T _{rr} 2.0u		s	I _F =0.5A, I _R =1.0A,		
Recovery Time						I _{rr} =0.25	A	

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

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

1 Amp Rectifier 50 - 1000 Volts

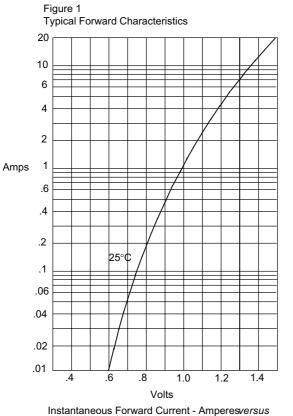


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Revision: 7

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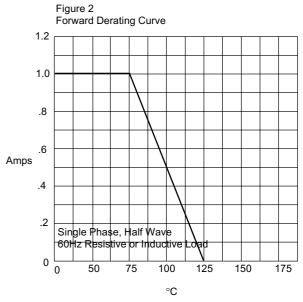
1N4001 thru 1N4007



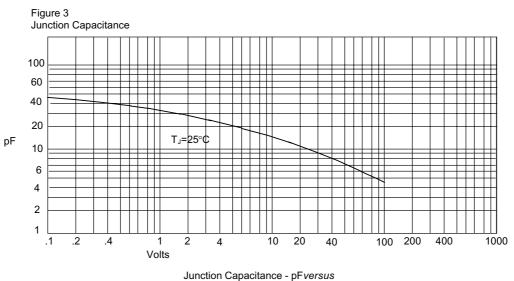
Instantaneous Forward Voltage - Volts



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

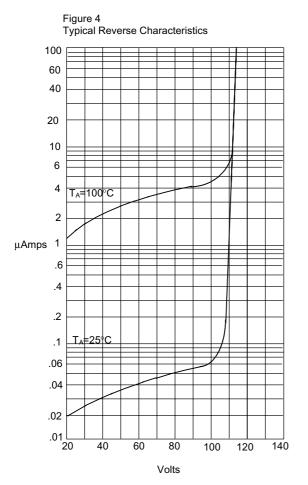


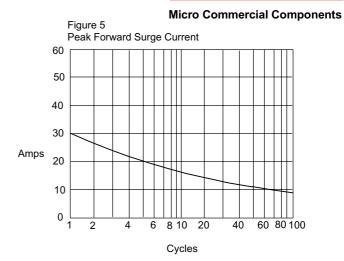
Reverse Voltage - Volts

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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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