NOT RECOMMENDED FOR NEW DESIGNS USE 1N4001GPL-TP~1N4007GPL-TP Series



Micro Commercial Components



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1N4001 THRU 1N4007

Features

- Halogen free available upon request by adding suffix "-HF"
- 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: 35°C/W Junction to Case

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		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

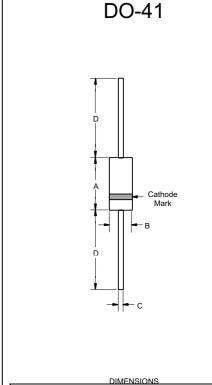
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _A = 75°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} = 1.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 50μA	T _J = 25°C T _J = 125°C
Typical Junction Capacitance	С	15pF	Measured at 1.0MHz, V _R =4.0V
Typical Reverse Recovery Time	T _{rr}	2.0µs	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Rating for fusing	l ² t	3.7A ² s	t<8.3ms

^{*}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



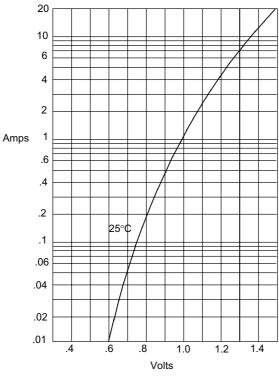
DIVILIACIONO					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.166	.205	4.10	5.20	
В	.080	.107	2.00	2.70	
C	.028	.034	.70	.90	
D	1.000		25.40		

1N4001 thru 1N4007

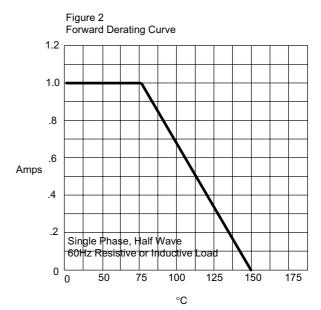
 $\cdot M \cdot C \cdot C \cdot$

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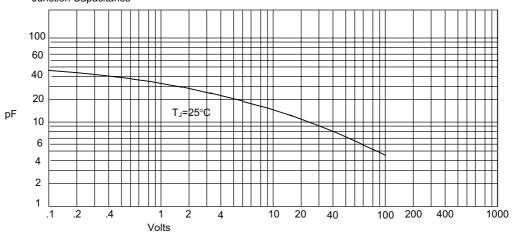


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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





1N4001 thru 1N4007

 $\cdot M \cdot C \cdot C \cdot$

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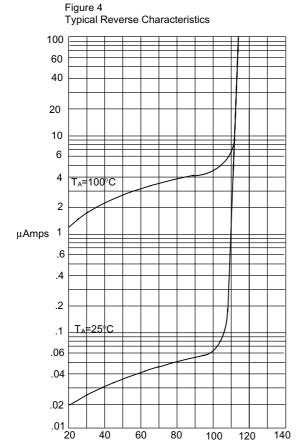


Figure 5 Peak Forward Surge Current 60 50 40 30 Amps 20 10 0 20 8 10 40 60 80 100 Cycles

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

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

Volts



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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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