imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Micro Commercial Components



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

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

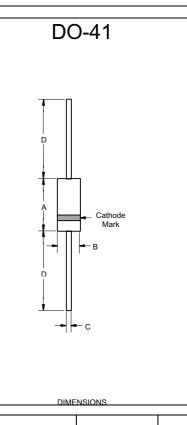
25°C/W Junction to Lead at 0.375"

Lead Lengtl	n P.C.B.	Mounted
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		2000 2011	gann reibi m	
MCC Catalog Number	Device Marking	Maximum Recurrent Peak	Maximum RMS Voltage	Maximum DC 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	5.0μΑ 50μΑ	T _J = 25°C T _J = 125°C
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V
Maximum Reverse Recovery Time	T _{rr}	2.0us	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



1N4001

THRU

1N4007

1 Amp Rectifier

50 - 1000 Volts

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

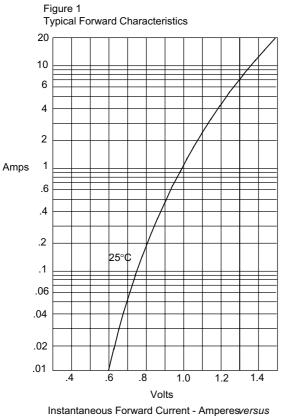
*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

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

www.mccsemi.com

Revision: E

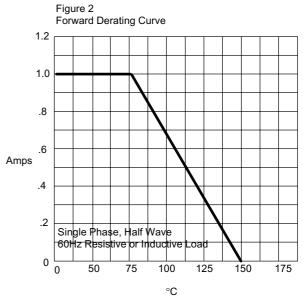
1N4001 thru 1N4007



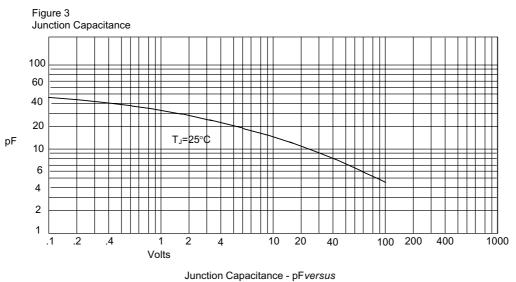
Instantaneous Forward Voltage - Volts



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



Reverse Voltage - Volts

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1N4001 thru 1N4007

Figure 4

100

60 40

20

10

6

4

2

.6

.4

.2 .1

.06 .04

.02 .01 _____ 20

μAmps 1

T_A=100°C

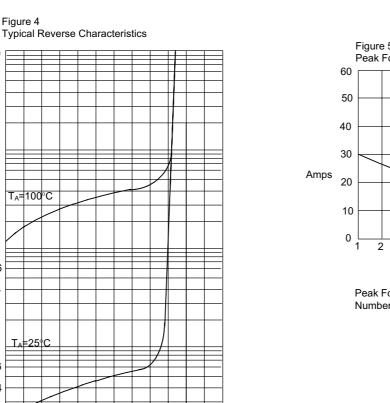
T_A=25^oC

40

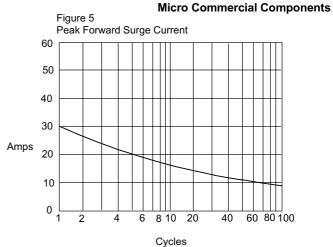
60

80

Volts







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

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

100

120

140

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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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