

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

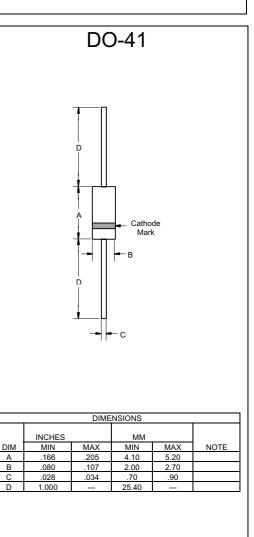
Maximum Ratings

- 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 | | | | | | |
|--|------------------|--------------------|-------------------------------|---|--------------------------------------|--|
| MCC Catalog Number | Device Markin | | rrent ak erse | Maximum RMS Voltage | Maximum DC Blocking Voltage | |
| 1N4001 | 1N4001 | 1 5 | 0V | 35V | 50V | |
| 1N4002 | 1N4002 | 2 10 | 700 | 70V | 100V | |
| 1N4003 | 1N400 | 3 20 |)0V | 140V | 200V | |
| 1N4004 | 1N4004 | 4 40 |)0V | 280V | 400V | |
| 1N4005 | 1N400 | 5 60 |)0V | 420V | 600V | |
| 1N4006 | 1N400 | 6 80 |)0V | 560V | 800V | |
| 1N4007 | 1N400 | 7 10 | 00V | 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} | 1.0\ | / I _{FM} = 1. T _J = 25 | | |
| Maximum DC Reverse Current At Rated DC Blocking | | I _R | 5.0μ <i>ι</i> 50μ <i>ι</i> | A T _J = 25 | °C | |



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.

CJ

Trr

15pF

2.0us

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Measured at

I_{rr}=0.25A

1.0MHz, V_R=4.0V

I_F=0.5A, I_R=1.0A,

Voltage

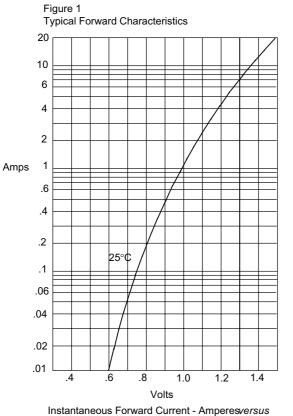
Typical Junction

Recovery Time

Maximum Reverse

Capacitance

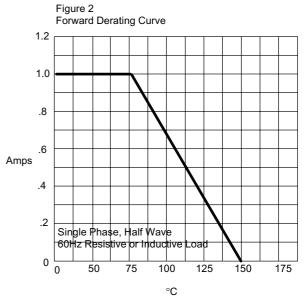
1N4001 thru 1N4007



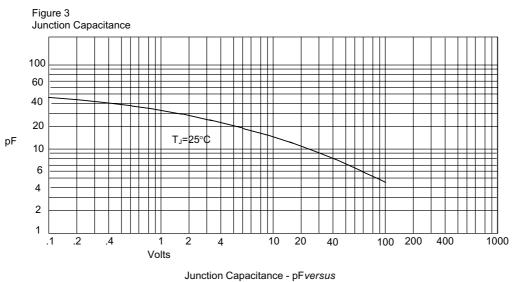
Instantaneous Forward Voltage - Volts



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

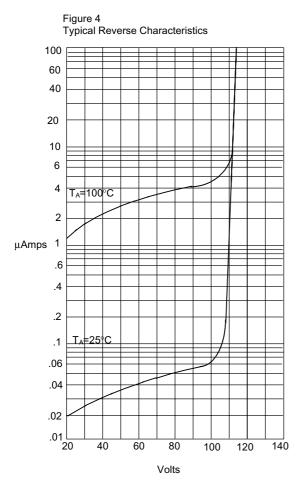


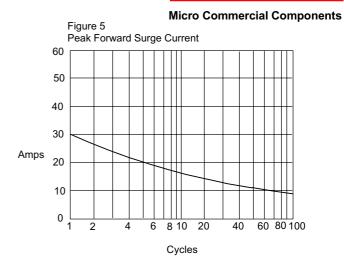


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1N4001 thru 1N4007







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/Ammo Box | | |
| Part Number-BP | Bulk: 50Kpcs/Carton | | |

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