

Micro Commercial Components

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

1N4001 THRU 1N4007

Features

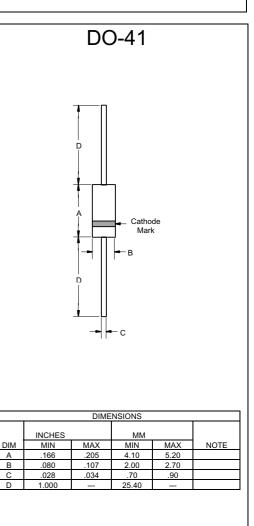
- Low Current Leakage
- Metalurgically Bonded Construction
- Low Cost
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

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"

| _ | | | | ead Length P.C.B. Mounted | | | | | |
|--|----------------------------|-------------|--------------------|---------------------------|-------|---------|---|-------------------------|--|
| ſ | MCC | VICC Device | | Maximum | | Maximum | | Maximum | |
| | Catalog | Marking | | Recurrent | | RMS | | DC | |
| | Number | _ | | Peak | | Voltage | | Blocking | |
| | | | | Reverse | | | | Voltage | |
| | | | | Volta | | | | | |
| | 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 | 1N400 |)7 | 1000V | | | 700V | 1000V | |
| Electrical Characteristics @ 25°C Unless Otherwise Specified | | | | | | | | | |
| ſ | Average Forward Current | | I _{F(AV)} | | 1.0A | ١ | T _A = 75°C | | |
| | | | | | | | | | |
| | 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°C* | | |
| | Maximum DC | | | | | | | | |
| | Reverse Current At | | | I _R | 5.0µ/ | A | T _J = 25°C | | |
| | Rated DC Blocking | | | | 50μΑ | | T _J = 125°C | | |
| | Voltage | | | | | | | | |
| | Typical Junction | | | CJ | 15pF | | Measured at | | |
| | Capacitance | | | | | | | z, V _R =4.0V | |
| | Maximum Reverse | | | T _{rr} | 2.0us | | I _F =0.5A, I _R =1.0A, | | |
| | Recovery Time | | | | | | I _{rr} =0.25 | A | |

1 Amp Rectifier 50 - 1000 Volts



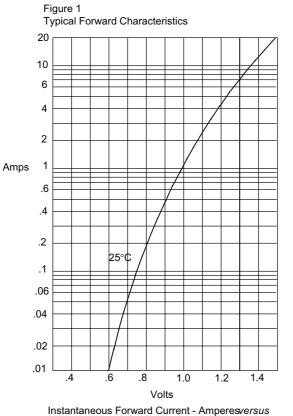
*Pulse test: Pulse width 300 µsec, Duty cycle 2%

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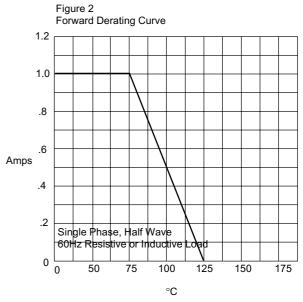
1N4001 thru 1N4007



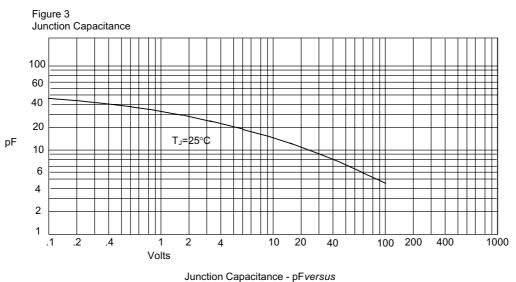
Instantaneous Forward Voltage - Volts



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

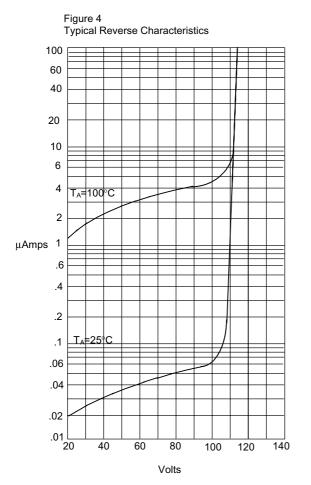


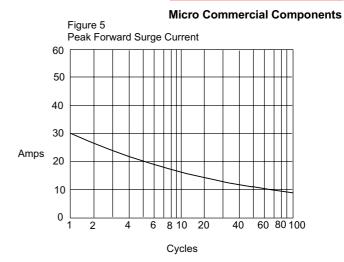
Reverse Voltage - Volts

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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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