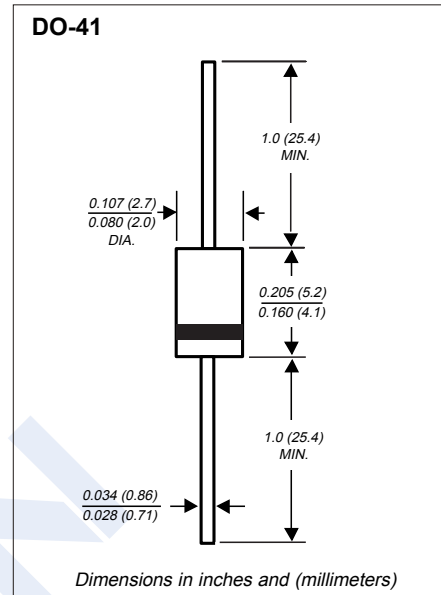


Rectifier Diodes

1N4001 ~ 1N4007

■ Features

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- Construction utilizes void-free
- molded plastic technique
- Low reverse leakage
- High forward surge current capability



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter | Symbol | 1N 4001 | 1N 4002 | 1N 4003 | 1N 4004 | 1N 4005 | 1N 4006 | 1N 4007 | Unit |
|---|-----------------|--------------------------|------------|------------|------------|------------|------------|------------|---------------------------|
| Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | |
| DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | |
| Forward Voltage @ $I_F=1\text{A}$ | V_F | 1.1 | | | | | | | |
| Average Rectified Current | I_{AV} | 1 | | | | | | | A |
| Peak Forward Surge Current @ 8.3ms | I_{FSM} | 30 | | | | | | | |
| Reverse Voltage Leakage Current | I_R | $T_a = 25^\circ\text{C}$ | | | | | | | uA |
| | | $T_a = 75^\circ\text{C}$ | | | | | | | |
| Typical junction capacitance | C_J | 15 | | | | | | | pF |
| Thermal Resistance Junction to Ambient (Note.1) | $R_{\theta JA}$ | 50 | | | | | | | $^\circ\text{C}/\text{W}$ |
| Junction Temperature | T_J | 150 | | | | | | | $^\circ\text{C}$ |
| Storage Temperature range | T_{stg} | -55 to 150 | | | | | | | |

Note.1: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Rectifier Diodes

1N4001 ~ 1N4007

■ Typical Characteristics

