

1N4001 thru 1N4007 1.0A Standard Diode

Features:

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- RoHS Compliant

Mechanical Data:

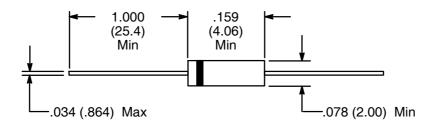
- Case: DO-41, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

<u>Absolute Maximum Ratings and Electrical Characteristics:</u> $(T_A = +25^{\circ}C, unless otherwise specified)$

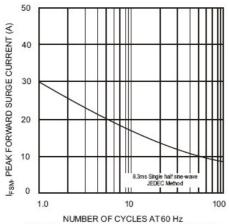
Peak Repetitive Voltage, V _{RRM}	
Working Peak Reverse Voltage, V _{RWM}	
DC Blocking Voltage, V _R	
1N4001	
1N4002	
1N4003	
1N4004	
1N4005	600V
1N4006	800V
1N4007	1000V
RMS Reverse Voltage, V _{R(RMS)}	
1N4001	
1N4002	
1N4003	
1N4004	
1N4005	
1N4006	560V
1N4007	
Average Rectified Output Current (T _A = +75°C, Note 1), I _O	1.0A
Non-Repetitive Peak Forward Surge Current, IFSM	
(8.3ms Single half sine-wave superimposed on rated load, JEDEC Method)	
Forward Voltage (I _F = 1.0A), V _{FM}	1.0V
Peak Reverse Current (T _A = +25°C), I _{RM}	5.0μΑ
At Rated DC Blocking Voltage (T _A = +100°C)	50μΑ
Typical Junction Capacitance (Note 2), C _i	15pF
Typical Thermal Resistance, Junction-to-Ambient, R _{thJA}	
Operating Temperature Range, T _i	
Storage Temperature Range, T _{STG}	

Note 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

Note 2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V D.C.



Color Band Denotes Cathode



NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

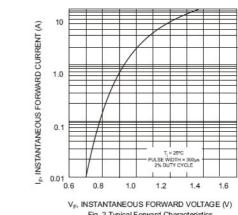


Fig. 2 Typical Forward Characteristics

