

# 1N4001 THRU 1N4007

Recerse Voltage -50 to 1000Volts
Forward Current -1.0 Ampere

## **GENERAL PURPOSE SILICON RECTIFIER**

#### **Features**

- The plastic package carries Underwriters Laboratory
   Flammability Classification 94-0
- · Construction utilizes void-free molded plastic technique
- low reverse leakage
- · High forward surge current capability
- High temperature soldering guaranteed:250°C/10seconds,
   0.375"(9.5mm) lead length,5lbs. (2.3kg) tension

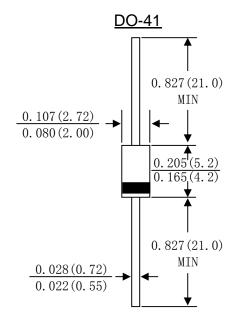
### **Mechanical Data**

• Case: JEDEC DO-41 molded plastic bldy

 Terminals: Plated leads solderable per MIL-STD-750, Method 2026

· Polarity: Color band dentes cathode end

• Mounting Position: Any



Dimensions in inches and (millimeters)

# **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified

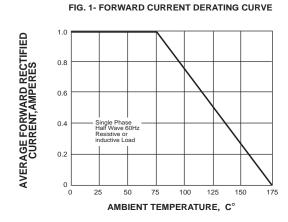
Single phase, half-wave 60Hz, resistive or inductive load, For capacitive load derate current by 20%.

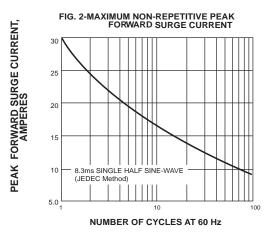
Type Number	SYMBOL	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	Units
Maximum recurrent peak reverse voltage	V <sub>RM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average rectified output current 0.375"(9.5mm) lead length at @TA=75℃	I <sub>(AV)</sub>	1.0							Α
Peak forward surge current 8.3ms single half sine- wave superimposed on rated load (JEDEC Method)	İfsm	30.0							Α
Maximum instantaneous forward voltage at1.0A	VF	1.1							V
Maximum DC reverse current @TA=25℃			5.0						
At Rated DC blocking voltage @TA=100℃	lR	50.0							uA
Typical junction capacitance (Note 1)	Cj	15.0							pF
Typical thermal resistance (Note 2)	RθJA	50.0 25.0							°C/W
	RθJL								
Maximum DC blocking voltage temperature	TA	+150							${\mathbb C}$
Operating junction and storage temperature range	Тj,Тsтg	-65 to +175							$^{\circ}$

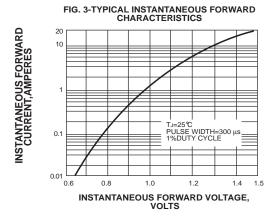
Note: 1. Measured at 1.0 MHz and applied reverse Voltage of 4.0V D.C

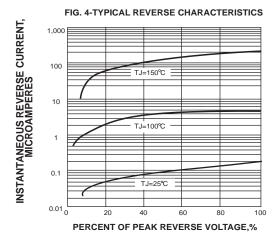
2. Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B mounted.

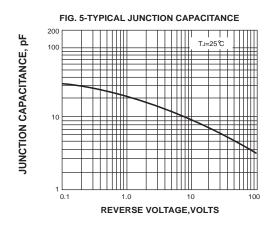
### **RATINGS AND CHARACTERISTIC CURVES 1N4001 THRU 1N4007**

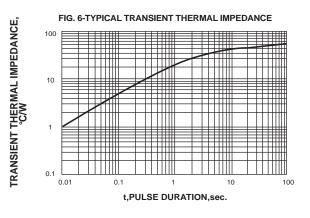




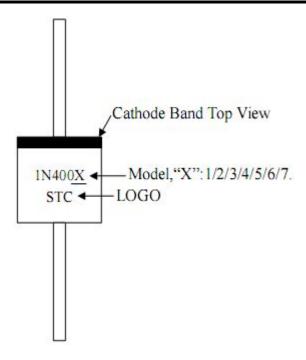








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