

***1N400X SERIES***

***GENERAL PURPOSE PLASTIC SILICON RECTIFIER OF ALLOY Cu LEAD***

**合金铜引线的普通整流二极管**

**产  
品  
规  
格  
及  
应  
用**

**说  
明  
书**

**FB**

# 1N4001 THRU 1N4007

GENERAL PURPOSE PLASTIC SILICON RECTIFIER OF ALLOY Cu LEAD

合金铜引线的普通整流二极管

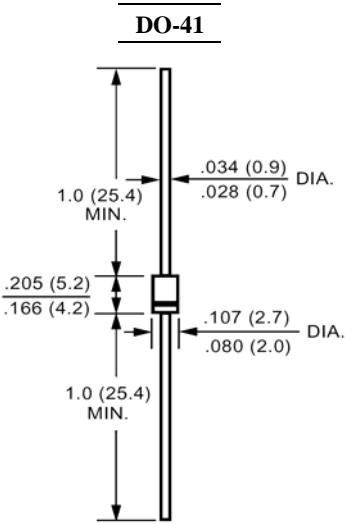
REVERSE VOLTAGE: 50 to 1000 VOLTS  
FORWARD CURRENT: 1.0 AMPERE

### FEATURES

- Low forward voltage drop
- High capability
- High surge current capability
- Exceeds environmental standards of MIL-S-19500/228

### MECHANICAL DATA

Case: Molded plastic, DO-41  
Epoxy: UL 94V-O rate flame retardant  
Lead: Alloy Cu Axial leads, solderable per MIL-STD-202, method 208 guaranteed  
Polarity: Color band denotes cathode end  
Mounting position: Any  
Weight: 0.006ounce, 0.168gram



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

	Symbols	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Units
Maximum Recerrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at $T_A=75^{\circ}C$	$I_{(AV)}$	1.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	30.0							Amp
Maximum Forward Voltage at 1.0A DC and 25°C	$V_F$	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage at $T_A=25^{\circ}C$	$I_R$	5.0							uAmp
Operating and Storage Temperature Range	$T_J, T_{stg}$	-40 to +100							°C

### Technology Application Instruction:

The lead of the products is made of the Alloy Cu lead. It belongs to Alloy Cu and non-standard product. In order to confirm the range of products' application, Our company suggest that customers should test on technology & quality strictly before utilizing the products.

### 技术应用说明:

本产品引线部分由合金铜制造，属于合金铜及非标类产品。本公司提示客户在使用本产品之前经作详细的技术质量应用认证，以确认本产品适用范围。

已阅上述内容并已了解知晓签回

公司名称: \_\_\_\_\_

