## 1N4001 THRU 1N4007

## **GENERAL PURPOSE SILICON RECTIFIER**

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

## **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

◆ High temperature soldering guaranteed:

250°C/10 seconds,0.375" (9.5mm) lead length,5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

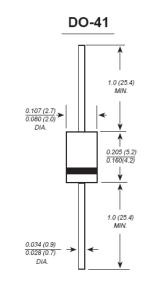
Case: JEDEC DO-41 molded plastic body

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

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 0.33 grams



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 current derate by 20%.

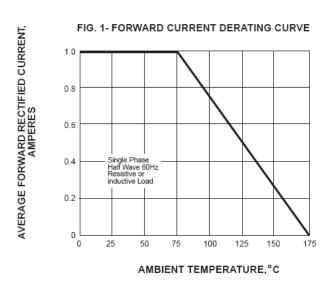
	SYMBOLS	1N	1N	1N	1N	1N	1N	1N	UNITS
	STWBULS	4001	4002	4003	4004	4005	4006	4007	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	1	1.0							Amp
0.375"(9.5mm) lead length at TA=75 $^{\circ}\mathrm{C}$	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM			30.0					Amps
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.1							Volts
Maximum DC reverse current TA=25℃		5.0 50.0							uA
at rated DC blocking voltage TA=100 $^{\circ}\mathrm{C}$	lR								
Typical junction capacitance (NOTE 1)	CJ	15.0							pF
Typical thermal resistance (NOTE 2)	Reja	50.0							°C/W
Operating junction and storage temperature range	TJ,TsTG	-65 to +175							$^{\circ}$ C

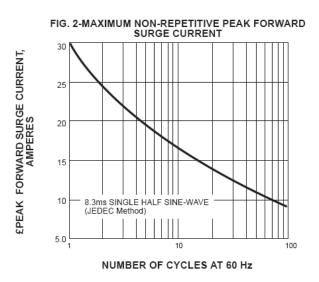
Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

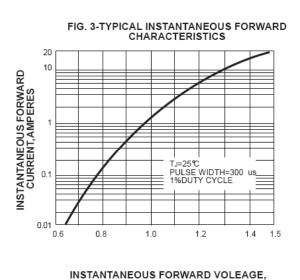
2.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length,P.C.B. mounted

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







VOLTS

