

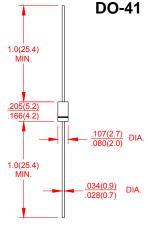
## 1N4001 THRU 1N4007

### FEATURES

- Low coat construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

### **MECHANICAL DATA**

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.012 ounce, 0.33 grams



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

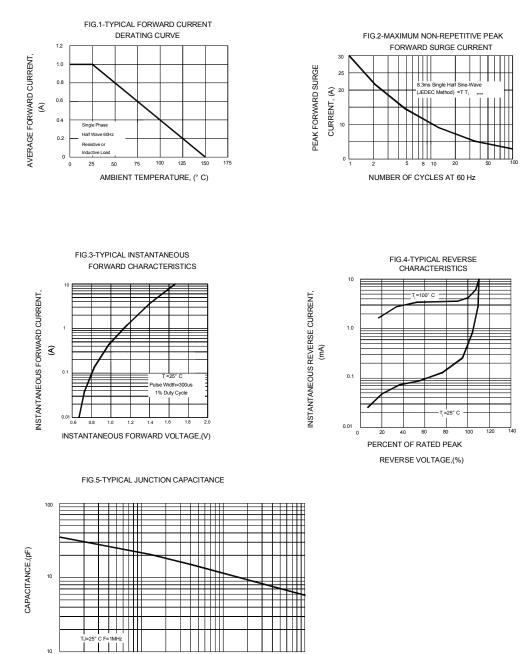
- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

		SYMBOLS	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNIT
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at $T_A=25$ °C		I <sub>(AV)</sub>	1.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I <sub>FSM</sub>	30							Amps
Maximum Instantaneous Forward Voltage @ 1.0A		V <sub>F</sub>	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	$T_A = 25 ^{\circ}\mathrm{C}$	т	5.0							μA
	$T_A = 100^\circ \mathrm{C}$	I <sub>R</sub>	50							
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at $T_L$ =75 °C		I <sub>R(AV)</sub>	30							μΑ
Typical Junction Capacitance (Note 1)		CJ	13							pF
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	50							°C/W
Operating Junction Temperature Range		T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range		T <sub>STG</sub>	-55 to +150							°C

Notes:

- 1. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.
- 2. Thermal Resistance from junction to terminal 6.0mm<sup>2</sup> copper pads to each terminal.
- 3. The chip size is  $40 \text{mil} \times 40 \text{mil}$

# RATING AND CHRACTERISTIC CURVES 1N4001 Thur 1N4007



100

1.0 4.0 10.0 REVERSE VOLTAGE,(VOLTS)

0.1

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