

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N4001 SERIES

1.0 AMP SILICON RECTIFIER  
50 THRU 1000 VOLTS

JEDEC DO-41 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4001 Series types are 1.0 Amp Silicon Rectifiers which are high quality, well constructed, highly reliable components designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications.

## MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

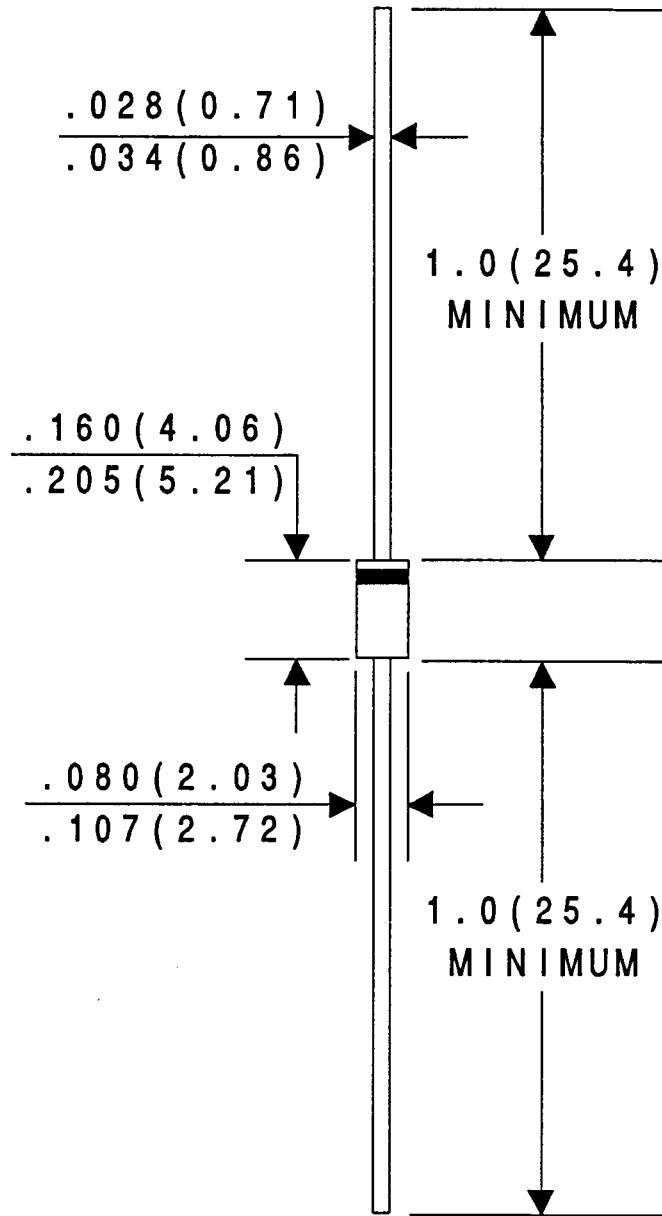
	SYMBOL	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_R$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Forward Current @ $T_A = 75^\circ\text{C}$	$I_O$				1.0				A
Peak Forward Surge Current	$I_{FSM}$				50				A
Operating and Storage Junction Temperature	$T_J, T_{stg}$				-65 to +175				$^\circ\text{C}$
Thermal Resistance	$\theta_{JA}$				26				$^\circ\text{C/W}$

## ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
$I_R$	$V_R = \text{Rated } V_{RRM}$		5.0	$\mu\text{A}$
$I_R$	$V_R = \text{Rated } V_{RRM}, T_A = 100^\circ\text{C}$		50	$\mu\text{A}$
$V_F$	$I_F = 1.0\text{A}$		1.1	V

(SEE REVERSE FOR OUTLINE DRAWING)

JEDEC DO-41 CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).