

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

145 Adams Avenue, Hauppauge, NY 11788 USA  
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

## 1N4001SP SERIES

1.0 AMP SILICON RECTIFIER  
50 THRU 1000 VOLTS

DO-41SP CASE

### DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4001SP 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)

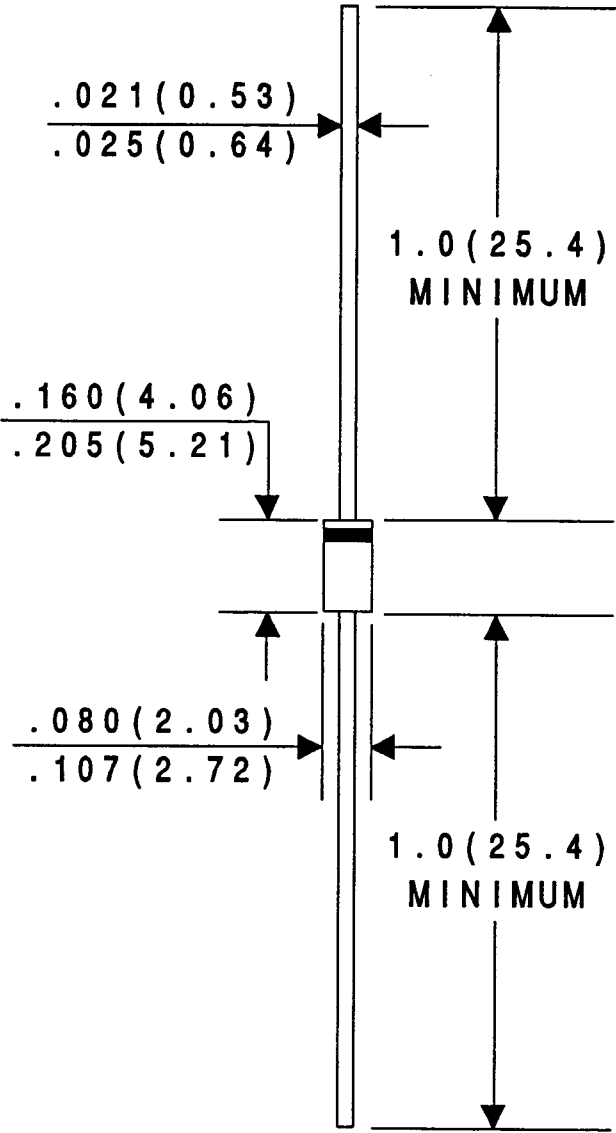
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	<u>SYMBOL</u>	<u>4001SP</u>	<u>4002SP</u>	<u>4003SP</u>	<u>4004SP</u>	<u>4005SP</u>	<u>4006SP</u>	<u>4007SP</u>	<u>UNITS</u>
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_R$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Forward Current	$I_O$				1.0				A
Peak Forward Surge Current	$I_{FSM}$				40				A
Operating and Storage									
Junction Temperature	$T_J, T_{stg}$				-65 to +175				$^\circ\text{C}$
Thermal Resistance	$\theta_{JA}$				50				$^\circ\text{C/W}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNITS</u>
$I_R$	$V_R = \text{Rated } V_{RRM}$		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)

DO-41SP CASE - MECHANICAL DIMENSIONS



All Dimensions in Inches (mm).