



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

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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)

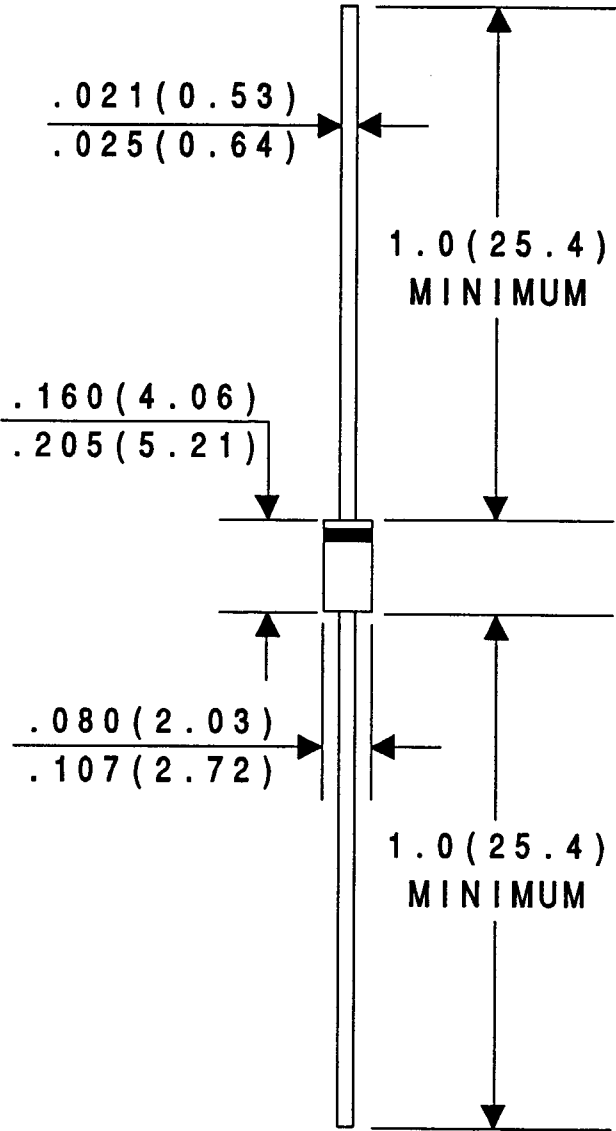
		1N	1N	1N	1N	1N	1N	1N	
	<u>SYMBOL</u>	<u>4001SP</u>	<u>4002SP</u>	<u>4003SP</u>	<u>4004SP</u>	<u>4005SP</u>	<u>4006SP</u>	<u>4007SP</u>	<u>UNITS</u>
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_R$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	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).