Data Sheet

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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 ($T_A = 25°C$ unless otherwise noted)

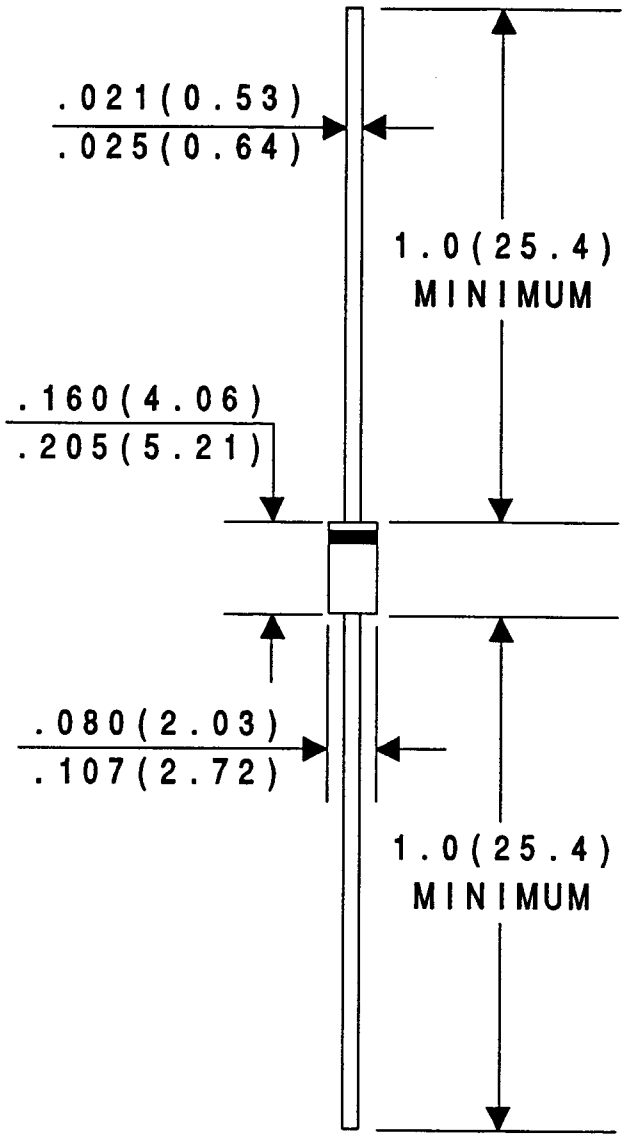
	SYMBOL	1N 4001SP	1N 4002SP	1N 4003SP	1N 4004SP	1N 4005SP	1N 4006SP	1N 4007SP	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Forward Current	I_O				1.0				A
Peak Forward Surge Current	I_{FSM}				40				A
Operating and Storage Junction Temperature	T_J, T_{stg}				-65 to +175				°C
Thermal Resistance	Θ_{JA}				50				°C/W

ELECTRICAL CHARACTERISTICS ($T_A = 25°C$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	V_R = Rated V_{RRM}		5.0	μA
I_R	V_R = Rated V_{RRM}, $T_A = 100°C$		50	μA
V_F	$I_F = 1.0A$		1.1	V

(SEE REVERSE FOR OUTLINE DRAWING)

DO-41SP CASE - MECHANICAL DIMENSIONS



All Dimensions in Inches (mm).

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