

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

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.

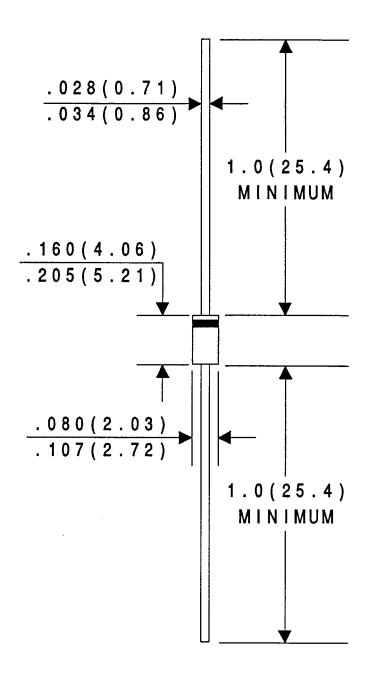
 $\underline{MAXIMUM\ RATINGS}\quad (T_{\mbox{\scriptsize A}}=25\,{}^{\mbox{\scriptsize o}}\ C\ unless\ otherwise\ noted)$

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:	<u>SYMBOL</u>	<u>4001</u>	<u>4002</u>	<u>4003</u>	<u>4004</u>	<u>4005</u>	<u>4006</u>	<u>4007</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	,								
@ T _A = 75°C	l _O				1.0				Α
Peak Forward Surge Current	I _{FSM}				50				Α
Operating and Storage									
Junction Temperature	T_J , T_{stg}			-65	5 to +17	7 5			°C
Thermal Resistance	Θ_{JA}				26				°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	<u>UNITS</u>
I _R	$V_R = Rated V_{RRM}$		5.0	μА
I_{R}	$V_R = Rated V_{RRM}$, $T_A = 100$ °C		50	μΑ
٧F	$I_F = 1.0A$		1.1	V

(SEE REVERSE FOR OUTLINE DRAWING)



All Dimensions in Inches (mm).



OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- PbSn plating options
- · Package details
- · Application notes
- · Application and design sample kits
- Custom product and package development

CONTACT US

Corporate Headquarters & Customer Support Team

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