

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

Manufacturers of World Class Discrete Semiconductors

1N3070

HIGH VOLTAGE SILICON SWITCHING DIODE

JEDEC DO-35 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N3070 is a High Speed Silicon Switching Diode designed for computer and general purpose applications requiring a high breakdown voltage. For higher voltage devices refer to CSSD2003 data sheet.

$\underline{MAXIMUM RATINGS} \quad (T_A = 25^{\circ}C)$

	<u>SYMBOL</u>		<u>UNITS</u>	
Peak Repetitive Reverse Voltage	V_{RRM}	175	٧	
Peak Working Reverse Voltage	V _{RWM}	175	V	
Average Forward Current	IO	200	mA	
Forward Steady-State Current	l _F	500	mA	
Peak Recurrent Forward Current	lf	600	mA	
Peak Forward Surge Current Pulse Width = 1.0s	l _{FSM}	1.0	Α	
Pulse Width = 1.0μ s	^I FSM	4.0	Α	
Power Dissipation	P_{D}	500	mW	
Operating and Storage				
Junction Temperature	T_{J}, T_{stg}	-65 to +200	оС	

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

SYMBOL	TEST CONDITIONS	<u>MIN</u>	MAX	<u>UNITS</u>
I _R	$V_R = 175V$		100	nA
I _R	$V_R = 175V$, $T_A = 150^{\circ}C$		100	μΑ
BV_R	$I_R = 100 \mu A$	200		V
٧ _F	I _F = 100mA		1.0	V
CT	$V_r = 0$, $f = 1.0MHz$		5.0	pF
t _{rr}	$I_f = I_r = 30$ mA, $R_L = 100\Omega$, Recovery to 1.0mA		50	ns

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 guick 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

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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