

1N276
GERMANIUM
SWITCHING DIODE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N276 is a gold bonded germanium diode mounted in a hermetically sealed glass case, designed for switching applications.

MARKING: FULL PART NUMBER



DO-7 CASE

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	V
DC Forward Current	I_F	40	mA
Peak Forward Current	I_{FM}	200	mA
Peak Forward Surge Current, $t_p=1.0\text{s}$ (Note 1)	I_{FSM}	400	mA
Power Dissipation (Note 2)	P_D	80	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +100	$^\circ\text{C}$

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

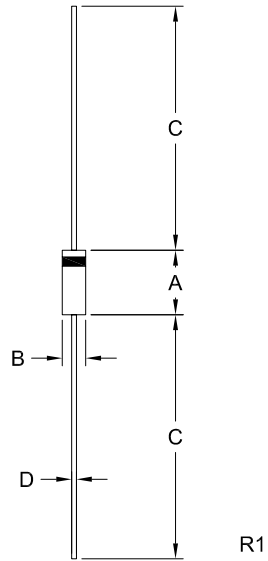
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R=50\text{V}$		100	μA
I_R	$V_R=10\text{V}, T_A=75^\circ\text{C}$		100	μA
BV_R	$I_R=100\mu\text{A}$	50		V
V_F	$I_F=40\text{mA}$		1.0	V
t_{rr}	$I_F=5.0\text{mA}$ to $V_R=40\text{V}, I_{rr}=0.5\text{mA}$		300	ns

Notes: (1) Non-recurrent
(2) Derate above 25°C $1.0\text{mW}/10^\circ\text{C}$

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DO-7 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.230	0.300	5.84	7.62
B (DIA)	0.085	0.107	2.16	2.72
C	1.000	-	25.40	-
D (DIA)	0.018	0.022	0.46	0.56

DO-7 (REV: R1)

R1 (30-April 2014)

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

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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For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms



<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01036
Notification Date:	8/19/16
Last Buy Date:	2/19/17
Last Shipment Date	8/19/17

Summary: The 1N276 germanium switching diode packaged in the DO-7 case is being discontinued and is now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

<u>Central Part Number</u>	<u>Replacement</u>
1N276 BK	N/A, Stock Only

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centrasemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.