1N276

GERMANIUM
SWITCHING DIODE

DO-7 CASE

www.centralsemi.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

MAXIMUM RATINGS: (T_A=25°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, tp=1.0s (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	°C

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

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

Notes: (1) Non-recurrent
(2) Derate above 25°C 1.0mW/10°C

R1 (30-April 2014)

1N276

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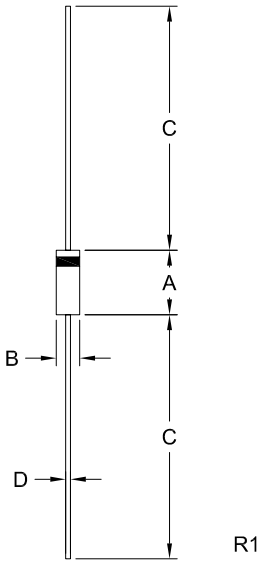
DO-7 CASE - MECHANICAL OUTLINE



R1

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)

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

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PDN01036
8/19/16
2/19/17
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 various 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 Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

Central Part Number	Replacement
1N276	N/A

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@centralsemi.com.