

**1N276**  
**GERMANIUM**  
**SWITCHING DIODE**



[www.centrasemi.com](http://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	$\mu\text{A}$
$I_R$	$V_R=10\text{V}, T_A=75^\circ\text{C}$		100	$\mu\text{A}$
$BV_R$	$I_R=100\mu\text{A}$	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  $25^\circ\text{C}$  1.0mW/ $10^\circ\text{C}$

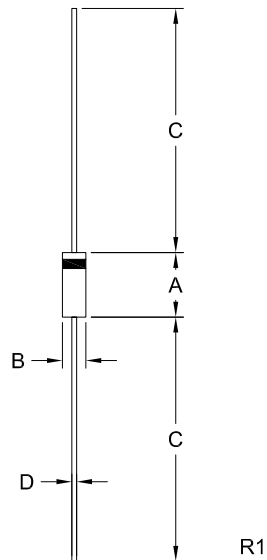
R1 (30-April 2014)

1N276

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DO-7 CASE - MECHANICAL OUTLINE



DIMENSIONS				
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



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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

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### CONTACT US

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