

1N276
GERMANIUM
SWITCHING DIODE



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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

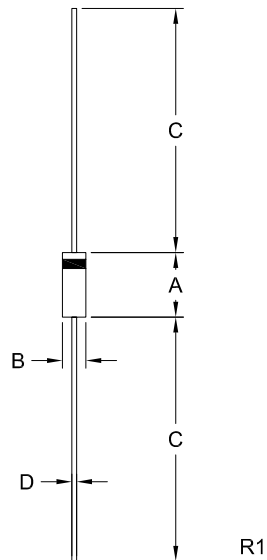
(2) Derate above 25°C 1.0mW/ 10°C

R1 (30-April 2014)

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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)

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

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