

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

www.centrasemi.com

1N821A THRU 1N829A

TEMPERATURE COMPENSATED

ZENER DIODE

JEDEC DO-35 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N821A Series types are temperature compensated Zener Diodes designed for applications where long-term stability is required.

## MAXIMUM RATINGS (T<sub>A</sub>=50°C unless otherwise noted)

	SYMBOL		UNITS
Power Dissipation	P <sub>D</sub>	500	mW
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +175	°C
Tolerance		±5	%

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

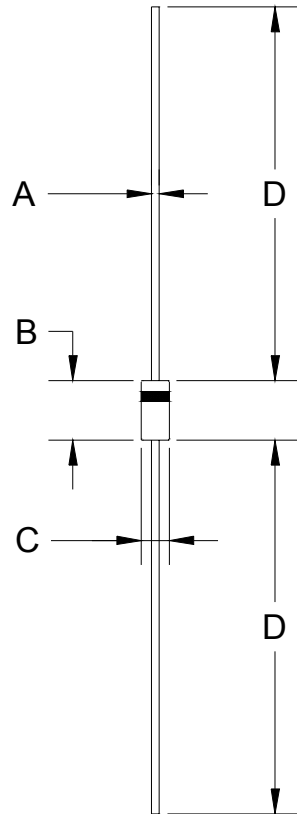
TYPE NO.	ZENER VOLTAGE	ZENER TEST CURRENT	MAXIMUM ZENER IMPEDANCE	VOLTAGE TEMPERATURE STABILITY*	TEMPERATURE COEFFICIENT**
	V <sub>Z</sub> @ I <sub>ZT</sub>	I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	Δ V <sub>Z</sub> MAX	
	Volts	mA	Ω	mV	%/°C
1N821A	6.20	7.5	10	96	0.01
1N823A	6.20	7.5	10	48	0.005
1N825A	6.20	7.5	10	19	0.002
1N827A	6.20	7.5	10	9.0	0.001
1N829	6.20	7.5	15	5.0	0.0005
1N829A	6.20	7.5	10	5.0	0.0005

\*The maximum allowable change observed over the temperature range of -55°C to +100°C.

\*\*Typical value

(SEE REVERSE SIDE)

## DO-35 PACKAGE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.018	0.022	0.46	0.56
B	0.120	0.200	3.05	5.08
C	0.060	0.090	1.52	2.29
D	1.000	-	25.40	-

DO-35 (REV: R1)

R1

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