Temperature Compensated Zener Reference Diode Series 1N821A thru 1N829A & 1N821-1 thru 1N829-1

Features

- 1N821-1, 1N823-1, 1N825-1, 1N827-1 and 1N829-1 available in JAN, JANTX, JANTXV, JANS
- Metallurgically Bonded, Double Plug Construction

Maximum Ratings

Operating & Storage Temperature: -65°C to +175°C DC Power Dissipation: 500mW @ +50°C Power Derating: 4 mW / °C above +50°C

REVERSE LEAKAGE CURRENT

 $I_R = 2 \ \mu A @ 25^{\circ}C \& V_R = 3 \ Vdc$

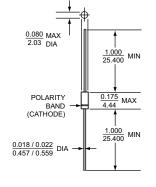
Electrical Specifications @ +25 °C (Unless Otherwise Specified)

JEDEC TYPE	Normal Zener Voltage	Zener Test Current	Maximum Zener Impedance (Note 1)	Voltage Temperature Stability ^Δ VZT	Effective Temperature Coefficient
Number	V _{z @} I _{ZT}	ΙΖΤ	Z _{ZT}	-55° to +100°C (Note 2)	
(Note 1)	Volts	mA	Ohms	mV	%/°C
1N821	5.9—6.5	7.5	15	96	0.01
1N821A	5.9—6.5	7.5	10	96	0.01
1N823	5.9—6.5	7.5	15	48	0.005
1N823A	5.9—6.5	7.5	10	48	0.005
1N825	5.9–6.5	7.5	15	19	0.002
1N825A	5.9–6.5	7.5	10	19	0.002
1N826	6.2–6.9	7.5	15	20	0.002
1N827	5.9–6.5	7.5	15	9	0.001
1N827A	5.9–6.5	7.5	10	9	0.001
1N828	6.2–6.9	7.5	15	10	0.001
1N829	5.9—6.5	7.5	15	5	0.0005
1N829A	5.9—6.5	7.5	10	5	0.0005

NOTE 1: Zener impedance is derived by superimposing on IZT A 60Hz rms a.c. current equal to 10% of IZT.

NOTE 2: The maximum allowable change observed over the entire temperature range i.e., the diode voltage will not exceed the specified mV at any discrete temperature between the established limits, per JEDEC standard No. 5.

Outline Drawing



All dimensions in INCH

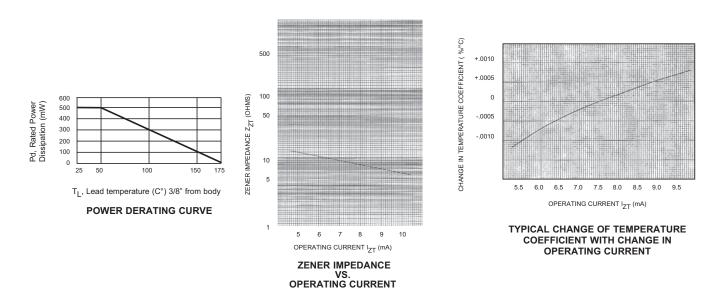


LEADED DESIGN DATA

CASE: Hermetically sealed, DO – 35 LEAD MATERIAL: Copper clad steel LEAD FINISH: Tin / Lead POLARITY: Cathode end is banded. MOUNTING POSITION: Any







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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.