american

power devices, inc.

500 mW temperature compensated zener reference diodes

FEATURES

- 6.2 V stable references
- Guaranteed maximum %/°c
- · Hermetically sealed glass package

MAXIMUM RATINGS

- Junction Temperature: -65°C to +200°C
- Storage Temperature: -65°C to +200°C DC Power Dissipation: 500mW @ T_<50°C
- Derate above 50°C: 3.33mW/°C

These silicon devices are low-level, temperature compensated, zener reference diodes. Oxide-passivated junctions give them stability and make these diodes highly reliable reference sources. Glass-enclosed construction provides a rugged, hermetically sealed unit.

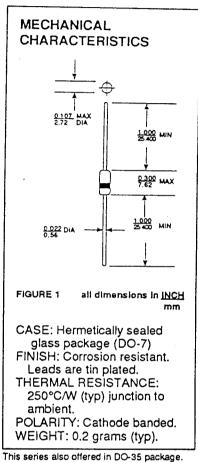
ELECTRICAL CHARACTERISTICS @ T = 25°C

JEDEC TYPE NUMBER	ZENER VOLTAGE (Note 1 and 4) V ₂ @ I ₂₁	ZENER TEST CURRENT I ₂₁	MAXIMUM ZENER IMPEDANCE (Note 3 and 4) Z ₂₁	VOLTAGE TEMPERATURE STABILITY $(\Delta V_{21}, MAX)$ 55° to + 100° (Note 3 and 4)	EFFECTIVE TEMPERATURE COEFFICIENT Qvz
	VOLTS	mA	OHMS	mV	%/°C
1N821 1N821A 1N822† 1N823	5.9 - 6.5 5.9 - 6.5 5.9 - 6.5 5.9 - 6.5 5.9 - 6.5	7.5 7.5 7.5 7.5 7.5	15 10 15 15	96 96 96 48	0.01 0.01 0.01 0.005
1N823A 1N824† 1N825 1N825A	5.9 - 6.5 5.9 - 6.5 5.9 - 6.5 5.9 - 6.5 5.9 - 6.5	7.5 7.5 7.5 7.5 7.5	10 15 15 10	48 48 19 19	0.005 0.005 0.002 0.002
1N826 1N827 1N827A 1N828 1N829	6.2 • 6.9 5.9 • 6.5 5.9 • 6.5 6.2 • 6.9 5.9 • 6.5	7.5 7.5 7.5 7.5 7.5 7.5	15 15 10 15 15	20 9 9 10 5	0.002 0.001 0.001 0.001 0.003 0.0005

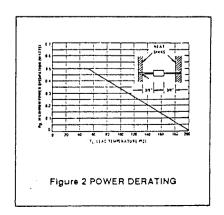
† Double anode: Electrical specifications apply under both polarities

Note 1 The zener impedance is derived from the 60 Hz ac voltage, which results when an ac current having an rms value equal to 10% of the DC zener current (I $_{\pi}$) is superimposed on $I_{\rm TT}$. Zener impedance is measured at two points to insure a sharp knee at breakdown thus eliminating unstable devices.

Note 2. The maximum allowable change over the entire temperature range, i.e. the diode voltage will not exceed the specified mV at any discrete temperature between the established limits.

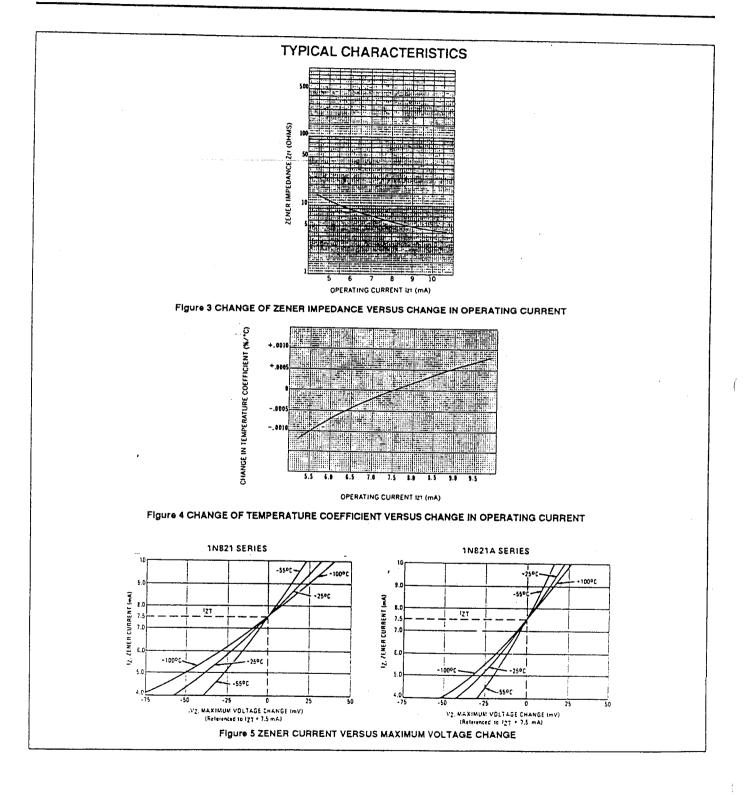


Consult factory for availability.





1N821-1N829 1N821A-1N829A



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