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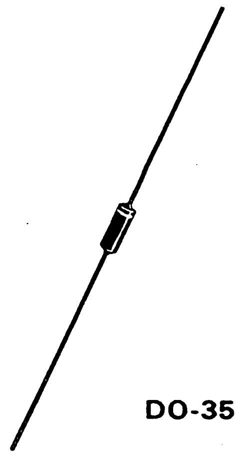
1N821, A, 1N823, A (SILICON)
1N825, A, 1N827, A
1N829, A

Temperature-compensated zener reference diodes



DO-35

MAXIMUM RATINGS

Junction Temperature: -55 to +175°C

Storage Temperature: -65 to +175°C

DC Power Dissipation: 400 mW @ T_A = 50°C

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed, all-glass

DIMENSIONS: See outline drawing.

FINISH: All external surfaces are corrosion resistant and leads are readily solderable and weldable.

POLARITY: Cathode indicated by polarity band.

MOUNTING POSITION: Any

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

V_Z = 6.2 V ±5.0%* @ I_{ZT} = 7.5 mA

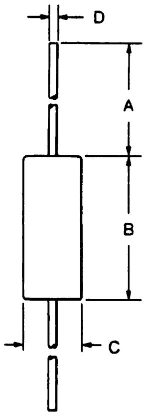
JEDEC Type No.	Maximum Voltage Change ΔV_Z (Volts)	Ambient Test Temperature °C ±1°C	Temperature Coefficient %/°C	Maximum Dynamic Impedance Z_{ZT} Ohms
1N821	0.096	-55, 0, +25, +75, +100	0.01	15
1N823	0.048		0.005	
1N825	0.019		0.002	
1N827	0.009		0.001	
1N829	0.005		0.0005	
1N821A	0.096		0.01	10
1N823A	0.048		0.005	
1N825A	0.019		0.002	
1N827A	0.009		0.001	
1N829A	0.005		0.0005	

CAPACITANCE (C) = 30 to 400 pF @ 90% of V_Z

FORWARD BREAKDOWN VOLTAGE (V_f) = 15 to 400 V

PHYSICAL DIMENSIONS

JEDEC DO-35 outline



DIM.	INCHES MIN.	INCHES TYP.	INCHES MAX.	MILLIMETERS MIN.	MILLIMETERS TYP.	MILLIMETERS MAX.
A	1.0			25.40		
B			.180			4.57
C			.075			1.91
D		.020			0.508	