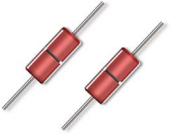
Silicon Zener Diode Series

Features

- Available in JAN, JANTX and JANTXV per MIL-PRF-19500/127
- Double Plug Construction
- Metallurgically Bonded
- Also available in DO-213 MELF style package

Maximum Ratings

Operating Temperature: -65°C to +175°C Storage Temperature: -65°C to +175°C DC Power Dissipation: 500 mW @ +50°C Power Derating: 4 mW / °C above +50°C Forward Voltage @ 200mA: 1.1 volts maximum A passion for performance.



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

JEDEC TYPE NUMBER (NOTE 1)	NOMINAL ZENER VOLTAGE Vz @ Izt	ZENER TEST CURRENT ^I ZT (NOTE 2)	MAXIMUM ZENER IMPEDANCE (NOTE 3) Z _{ZT} @ I _{ZT}	MAXIMUM REVERSE CURRENT I _R @ V _R		MAXIMUM ZENER CURRENT ^I ZM
	VOLTS	mA	OHMS	μA	VOLTS	mA
1N4370A	2.4	20	30	100	1.0	155
1N4371A	2.7	20	30	60	1.0	140
1N4372A	3.0	20	29	30	1.0	125
1N746A	3.3	20	28	5	1.0	120
1N747A	3.6	20	24	3	1.0	110
1N748A	3.9	20	23	2	1.0	100
1N749A	4.3	20	22	2	1.0	90
1N750A	4.7	20	19	5	1.5	85
1N751A	5.1	20	17	5	2.0	75
1N752A	5.6	20	11	5	2.5	70
1N753A	6.2	20	7	5	3.5	65
1N754A	6.8	20	5	2	4.0	60
1N755A	7.5	20	6	2	5.0	55
1N756A	8.2	20	8	1	6.0	50
1N757A	9.1	20	10	1	7.0	45
1N758A	10.0	20	17	1	8.0	40
1N759A	12.0	20	30	1	9.0	35

NOTE 1: Zener voltage tolerance on "A" suffix is $\pm 5\%$. No Suffix denotes $\pm 10\%$ tolerance, "C" suffix denotes $\pm 2\%$ tolerance and "D" suffix denotes $\pm 1\%$ tolerance.

NOTE 2: Zener voltage is measured with the device junction in thermal equilibrium at an ambient temperature of $25^{\circ}C \pm 3^{\circ}C$.

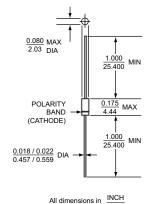
NOTE 3: Zener impedance is derived by superimposing on IZT A 60Hz rms a.c. current equal to 10% of IZT





1N746 thru1N759A & 1N4370 thru1N4372A (Including -1 Versions)

Outline Drawing



Graphs

100

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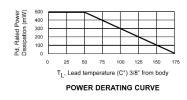
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ZENER IMPEDANCE ZZT (OHMS)

LEADED DESIGN DATA

CASE: Hermetically sealed, DO – 35 LEAD MATERIAL: Copper clad steel LEAD FINISH: Tin / Lead THERMAL RESISTANCE: ($R_{0,JEC}$): 250 °C/W maximum at L = .375 in THERMAL IMPEDANCE: ($Z_{0,JX}$): 35°C/W maximum POLARITY: Diode to be operated with the banded (cathode) end positive MOUNTING POSITION: Any



operating current (mA) ZENER IMPEDANCE VS. OPERATING CURRENT

6 10

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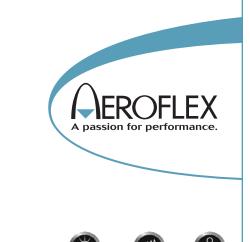
5.1 V 1N751 5.6 V 1N752

60

100

40

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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.

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