

LOW VOLTAGE AVALANCHE ZENER DIODES HIGH PERFORMANCE: LOW NOISE, LOW LEAKAGE

1N6082 - 1N6091
LVA343A - LVA3100A

- Designed for use at low current levels.
- Features sharp knees, low leakage, low impedance, and low noise.
- Available in the DO-7 glass package and in die form.

JEDEC NUMBER	LVA TYPE (NOTE 1)	NOMINAL ZENER VOLTAGE Vz @ Iz (VOLTS)	TEST CURRENT Izt (mA)	MAX ZENER IMPEDANCE (NOTE 2) Zzt @ Iz (OHMS)	MAX REVERSE LEAKAGE CURRENT		MAX NOISE DENSITY AT (NOTE 3) Iz = 250 μ A (ND μ V / $\sqrt{\text{Hz}}$)	MAX REGULATION FACTOR (NOTE 4)	
					Ir (μ Adc)	Vr (VOLTS)		Δ Vz (VOLTS)	IzL (mAdc)
1N6082	LVA343A	4.3	20	18	2.0	1.5	1.0	0.75	2.0
1N6083	LVA347A	4.7	10	10	2.0	2.0	1.0	0.50	1.0
1N6084	LVA351A	5.1	5	10	2.0	3.0	1.0	0.30	0.25
1N6085	LVA356A	5.6	1	40	2.0	4.5	1.0	0.10	0.05
1N6086	LVA362A	6.2	1	45	0.5	5.6	1.0	0.10	0.01
1N6087	LVA368A	6.8	1	50	0.05	6.2	1.0	0.10	0.01
1N6088	LVA375A	7.5	1	50	0.01	6.8	1.0	0.10	0.01
1N6089	LVA382A	8.2	1	60	0.01	7.5	1.0	0.10	0.01
1N6090	LVA391A	9.1	1	60	0.01	8.2	2.0	0.10	0.01
1N6091	LVA3100A	10.0	1	60	0.01	9.1	2.0	0.10	0.01

1. Suffix denotes Vz tolerance: non suffix for $\pm 20\%$, A suffix for $\pm 10\%$.

2. Measures with 10%, 60 Hz AC superimposed on Iz.

3. Measured from 1000 to 3000 Hz.

4. Difference between Vz at Iz and IzL.

5. $V_F @ 200\text{mA} = 1.2\text{V Max.}$

6. Power rating is 400 mW @ 25°C, derate linearly to zero @ 175°C

7. Package Style DO-7