



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	TEST	MAX ZENER	MAX REVERSE LEAKAGE		MAX NOISE	MAX REGULATION	
		VOLTAGE	CURRENT	IMPEDANCE	CURRENT		DENSITY AT	FACTOR (NOTE 4)	
		V _z @ I _{zt} (VOLTS)	I _{zt} (mA)	(NOTE 2) Z _{zt} @ I _{zt} (OHMS)	I _r (μAdc)	V _r (VOLTS)	(NOTE 3) I _z = 250 μA (ND μV / √Hz)	ΔV _z (VOLTS)	I _{zL} (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 V_z tolerance: non suffix for $\pm 20\%$, A suffix for $\pm 10\%$.
2. Measures with 10%, 60 Hz AC superimposed on I_{zt}.
3. Measured from 1000 to 3000 Hz.
4. Difference between V_z at I_{zt} and I_{zL}.
5. V_F @ 200mA = 1.2V Max.
6. Power rating is 400 mW @ 25°C, derate linearly to zero @ 175°C
7. Package Style DO-7