KNOX Semiconductor
ESTABLISHED 1974 INC.

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 @ Izt (VOLTS)	TEST CURRENT Izt (mA)	MAX ZENER IMPEDANCE (NOTE 2) Zzt @ Izt (OHMS)	MAX REVERSE LEAKAGE CURRENT Ir (µAdc)	Vr (VOLTS)	MAX NOISE DENSITY AT (NOTE 3) Iz = 250 µA (ND µV / √Hz)	MAX REGULATION FACTOR (NOTE 4) ΔVz (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 ±20%, A suffix for ±10%.
2. Measures with 10%, 60 Hz AC superimposed on Izt.
3. Measured from 1000 to 3000 Hz.
4. Difference between Vz at Izt 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

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