

**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 Iz (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 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. Vf @ 200mA = 1.2V Max.
6. Power rating is 400 mW @ 25°C, derate linearly to zero @ 175°C
7. Package Style DO-7