

SHARP BREAKDOWN, LOW LEAKAGE LVA REGULATOR DIODES LVA450A - LVA498A

- Sharper breakdown voltage
- Lower leakage current characteristics in the 5 – 9 volt range

PART NUMBER	NOMINAL VOLTAGE @ 250 μ A	MAX ZENER IMPEDANCE @ 250 μ Adc	MAX REVERSE LEAKAGE I_r @ V_r (μ Adc)	MAX REGULATION FACTOR ΔV_z (Vdc)	I_{zh} (mAdc)	I_{zL} (μ Adc)	TYPICAL TC @ 250 μ Adc MV/ °C	MAX NOISE DENSITY @ 250 μ A
LVA450A	5.0	700	10.0	4.00	0.40	1.0	0.75	1
LVA453A	5.3	250	5.0	4.24	0.20	1.0	1.33	1
LVA456A	5.6	100	1.0	4.48	0.10	1.0	1.96	1
LVA459A	5.9	100	0.5	4.72	0.10	1.0	2.30	1
LVA462A	6.2	100	0.1	4.96	0.10	1.0	2.67	1
LVA465A	6.5	100	0.05	5.20	0.10	1.0	3.06	1
LVA468A	6.8	100	0.01	5.44	0.10	1.0	3.40	1
LVA471A	7.1	175	0.01	5.68	0.10	1.0	3.76	1
LVA474A	7.4	175	0.01	5.92	0.10	1.0	4.07	1
LVA477A	7.7	175	0.01	6.16	0.10	1.0	4.47	1
LVA480A	8.0	175	0.01	6.40	0.10	1.0	4.80	1
LVA483A	8.3	175	0.01	6.64	0.10	1.0	5.15	1
LVA486A	8.6	175	0.01	6.88	0.10	1.0	5.50	1
LVA489A	8.9	175	0.01	7.12	0.10	1.0	5.87	2
LVA492A	9.2	175	0.01	7.36	0.10	1.0	6.16	2
LVA495A	9.5	175	0.01	7.60	0.10	1.0	6.46	2
LVA498A	9.8	175	0.01	7.84	0.10	1.0	6.86	2

Package Style		DO-7
Forward Voltage (Vf)	@ I_f = 200 mAdc	1.5 Vdc
Noise Density (Nd)	@ I_z = 250 μ Adc	1.0 μ V / $\sqrt{\text{Hz}}$
Power Dissipation (Pd)	@ T_a = 25° C	400 mW
Operating Temperature (Topr)		-65 to + 175° C
Storage Temperature (Tstg)		-65 to + 200° C
Voltage Tolerance:	Standard Device	± 0.20 Vdc

Impedance measured with 10% 60 Hz AC superimposed on I_{zt} .
Noise Density on devices LVA489 to LVA498 increases to 2.0 max.
Noise Density measured from 1000 to 3000 Hz.