

KNOX SEMICONDUCTOR, INC.

These low voltage avalanche diodes exhibit considerably sharper breakdown and lower leakage current characteristics than other regulator diodes in the 4 - 10 volt range.

SHARP BREAKDOWN, LOW LEAKAGE LVA REGULATOR DIODES LVA43A - LVA100A

TYPE NUMBER	NOMINAL VOLTAGE Vz @ Iz (Vdc)	TEST CURRENT Izt (mA)	MAX ZENER IMPEDANCE Zzt @ Iz (OHMS)	MAX REVERSE LEAKAGE CURRENT Ir (μ Adc)	Vr (Vdc)	MAX NOISE DENSITY @ 250 μ A
LVA43A	4.3	20	12	4.0	1.5	4
LVA47A	4.7	10	15	4.0	2.0	4
LVA51A	5.1	5	15	0.1	2.0	4
LVA56A	5.6	1	40	0.05	3.0	4
LVA62A	6	1	50	0.05	4.0	4
LVA68A	6.8	1	50	0.05	5.0	4
LVA75A	7.5	1	100	0.01	6.0	4
LVA82A	8.2	1	100	0.01	6.5	4
LVA91A	9.1	1	100	0.01	8.0	4
LVA100A	10.0	1	100	0.01	9.0	4

MAXIMUM RATINGS

Package Style		DO-7
Forward Voltage (Vf)	@ If = 200 mAdc	1.5 Vdc
Noise Density (Nd)	@ Iz = 250 μ Adc	4.0 μ V / $\sqrt{\text{Hz}}$
Power Dissipation (Pd)	@ Ta = 25° C	400 mW
Operating Temperature (Topr)		-65 to + 175° C
Storage Temperature (Tstg)		-65 to + 200° C
Voltage Tolerance:	Standard Device	±10%
	Suffix A	±5%
	Suffix B	±2%
	Suffix C	±1%

Noise Density measured from 1000 to 3000 Hz.