

# Silicon Zener Diodes



Glass Axial Leaded

- Sharper Breakdown
- Lower Leakage Current Characteristics in the 4–10 Volt range and the 5–9 Volt range

The family of Aeroflex / Metelics Silicon Zener Avalanche Diodes includes a variety of models in various voltage ranges. They feature sharp breakdown and low leakage LVA regulators. Certain models also feature exceptionally low noise, low impedance and sharp knees for high performance, low current applications.

## Sharp Breakdown, Low Leakage LVA Regulator, 4–10 Volt Range

Model	Voltage Vz @ Izt Vdc	Test Current Izt mA	Zener Impedance Zzt @ Izt Ω	Reverse Leakage Current MAX		Noise Density @ 250 μA
	TYP		MAX	I <sub>R</sub> μA <sub>dc</sub>	V <sub>R</sub> V <sub>dc</sub>	MAX
LVA43A	4.3	20	18	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	6.0	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 Rating	Parameters	Value	Rating
	Package style	CS85 (DO-7)	
	Forward Voltage	@ If = 200 mA <sub>dc</sub>	1.5 V <sub>dc</sub>
	Noise Density	@ Iz = 250 μA <sub>dc</sub>	4.0 μV / √Hz
	Power Dissipation	@ Ta = 25° C	400 mW
	Operating Temperature		-65° C to + 175° C
	Storage Temperature		-65° C to + 200° C
	Voltage Tolerance	Standard Device	±10%
	Suffix A	±5%	
	Suffix B	±2%	

Noise Density measured from 1000 to 3000 Hz.