

Silicon Zener Diodes



Glass Axial Leaded

1N6000 Series Low Voltage, High Performance, Low Noise, Low Leakage

Model	Zener Voltage	Test Current Izt mA	Zener Impedance ²	Reverse Leakage Current		Noise Density ³	Regulation Factor ⁴		LVA TYPE ¹
	TYP		Ω MAX	Ir μA _{dc} MAX	V _r ² Volts MAX	MAX	Δ Vz Volts MAX	IzL mA _{dc} MAX	
1N6082	4.3	20	18	2.0	1.5	1.0	0.75	2.0	LVA343A
1N6083	4.7	10	10	2.0	2.0	1.0	0.50	1.0	LVA347A
1N6084	5.1	5	10	2.0	3.0	1.0	0.30	0.25	LVA351A
1N6085	5.6	1	40	2.0	4.5	1.0	0.10	0.05	LVA356A
1N6086	6.2	1	45	0.5	5.6	1.0	0.10	0.01	LVA362A
1N6087	6.8	1	50	0.05	6.2	1.0	0.10	0.01	LVA368A
1N6088	7.5	1	50	0.01	6.8	1.0	0.10	0.01	LVA375A
1N6089	8.2	1	60	0.01	7.5	1.0	0.10	0.01	LVA382A
1N6090	9.1	1	60	0.01	8.2	2.0	0.10	0.01	LVA391A
1N6091	10.0	1	60	0.01	9.1	2.0	0.10	0.01	LVA3100A
Test Conditions	Vz @ Izt Volts		Zzt @ Izt			@ Iz = 250 μA (ND μV / √Hz)			

Notes:

1. Suffix denotes Vz tolerance: non suffix +20%, A suffix +10%.
2. Measured with 10%, 60 Hz AC superimposed on Izt.
3. Measured from 1000 to 3000 Hz.
4. Difference between Vz as Izt and IzL.
5. VF @ 200mA = 1.2V max.
6. Power rating is 400 mW @ 25° C, derate linearly to zero @ 175° C.