



**LOW LEVEL ZENER DIODES**  
**LOW CURRENT: 250µA - LOW NOISE**  
**1N4099-1N4121 \*\* 1N4614-1N4627**

PART NUMBER	NOM ZENER VOLTAGE	MAX ZENER IMPEDANCE	MAX REVERSE LEAKAGE CURRENT		MAX NOISE DENSITY AT	MAX REGULATOR CURRENT I <sub>zm</sub>
	V <sub>z</sub> @ 250 µA (VOLTS)	Z <sub>zt</sub> @ 250 µA (OHMS)	I <sub>r</sub> @ (µA <sub>dc</sub> )	V <sub>r</sub> (V <sub>dc</sub> )	I <sub>z</sub> = 250 µA µV <sub>z</sub> / √Hz	(mA <sub>dc</sub> )
1N4099	6.8	200	10.0	5.17	40	35.0
1N4100	7.5	200	10.0	5.70	40	31.8
1N4101	8.2	200	1.0	6.24	40	29.0
1N4102	8.7	200	1.0	6.61	40	27.4
1N4103	9.1	200	1.0	6.92	40	26.2
1N4104	10.0	200	1.0	7.60	40	24.8
1N4105	11.0	200	0.05	8.44	40	21.6
1N4106	12.0	200	0.05	9.12	40	20.4
1N4107	13.0	200	0.05	9.87	40	19.0
1N4108	14.0	200	0.05	10.65	40	17.5
1N4109	15.0	100	0.05	11.40	40	16.3
1N4110	16.0	100	0.05	12.15	40	15.4
1N4111	17.0	100	0.05	12.92	40	14.5
1N4112	18.0	100	0.05	13.67	40	13.2
1N4113	19.0	150	0.05	14.44	40	12.5
1N4114	20.0	150	0.01	15.20	40	11.9
1N4115	22.0	150	0.01	16.72	40	10.8
1N4116	24.0	150	0.01	18.25	40	9.9
1N4117	25.0	150	0.01	19.00	40	9.5
1N4118	27.0	150	0.01	20.46	40	8.8
1N4119	28.0	200	0.01	21.28	40	8.5
1N4120	30.0	200	0.01	22.80	40	7.9
1N4121	33.0	200	0.01	25.08	40	7.2

1N4614	1.8	1200	7.5	1.0	1	120.0
1N4615	2.0	1250	5.0	1.0	1	110.0
1N4616	2.2	1300	4.0	1.0	1	100.0
1N4617	2.4	1400	2.0	1.0	1	95.0
1N4618	2.7	1500	1.0	1.0	1	90.0
1N4619	3.0	1600	0.8	1.0	1	85.0
1N4620	3.3	1650	7.5	1.5	1	80.0
1N4621	3.6	1700	7.5	2.0	1	75.0
1N4622	3.9	1650	5.0	2.0	1	70.0
1N4623	4.3	1600	4.0	2.0	1	65.0
1N4624	4.7	1550	10.0	3.0	1	60.0
1N4625	5.1	1500	10.0	3.0	2	55.0
1N4626	5.6	1400	10.0	4.0	4	50.0
1N4627	6.2	1200	10.0	5.0	5	45.0

1. Package Style DO-7
2. V<sub>z</sub> tolerance: ± 5%
3. Forward Voltage (VF) Maximum 1.0 Vdc  
(1N4614 – 1N4627 I<sub>F</sub> = 100 mA; 1N4099 – 1N4121 I<sub>F</sub> = 200 mA)
4. Noise Density measured from 1000 to 3000 Hz.
5. MILITARY SCREENING AVAILABLE.