

KNOX SEMICONDUCTOR, INC.

LOW LEVEL ZENER DIODES LOW CURRENT: 250 μ A - LOW NOISE 1N4099-1N4121 ** 1N4614-1N4627

TYPE NUMBER	NOM ZENER VOLTAGE Vz @ 250 μ A (VOLTS)	MAX ZENER IMPEDANCE Zzt @ 250 μ A (OHMS)	MAX REVERSE LEAKAGE CURRENT Ir @ Vr (μ Adc) (Vdc)		MAX NOISE DENSITY AT Iz = 250 μ A μ Vz / $\sqrt{\text{Hz}}$	MAX REGULATOR CURRENT Iz _m (mAdc)
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. Vz tolerance: $\pm 5\%$
2. Forward Voltage (VF) Maximum 1.0 Vdc
(1N4614 – 1N4627 IF = 100 mA; 1N4099 – 1N4121 IF = 200 mA)
3. Noise Density measured from 1000 to 3000 Hz.
4. MILITARY SCREENING AVAILABLE. (Note: These are not metallurgically bonded (-1) devices.)
5. Package Style DO-7