



LOW VOLTAGE AVALANCHE ZENER DIODES HIGH PERFORMANCE: LOW NOISE, LOW LEAKAGE 1N5518 - 1N5546

PART NUMBER (NOTE 1)	NOMINAL ZENER VOLTAGE Vz @ Iz (VOLTS)	TEST CURRENT Izt (mA)	MAX ZENER IMPEDANCE (NOTE 2) Zzt @ Iz (OHMS)	MAX REVERSE LEAKAGE CURRENT			MAX NOISE DENSITY AT (NOTE 3) Iz = 250 μ A (ND μ V / \sqrt Hz)	MAX REGULATION FACTOR (NOTE 4) Δ Vz (VOLTS)		MAX REGULATOR CURRENT Izm (mA)
				Ir (μ Adc)	Vr1 (VOLTS)	Vr2 (VOLTS)			IzL (mA)	
1N5518	3.3	20	26	5.0	0.9	1.0	0.5	0.90	2.0	115
1N5519	3.6	20	24	3.0	0.9	1.0	0.5	0.90	2.0	105
1N5520	3.9	20	22	1.0	0.9	1.0	0.5	0.85	2.0	98
1N5521	4.3	20	18	3.0	1.0	1.5	0.5	0.75	2.0	88
1N5522	4.7	10	22	2.0	1.5	2.0	0.5	0.60	1.0	81
1N5523	5.1	5	26	2.0	2.0	2.5	0.5	0.65	0.25	75
1N5524	5.6	3	30	2.0	3.0	3.5	1.0	0.30	0.25	68
1N5525	6.2	1	30	1.0	4.5	5.0	1.0	0.20	0.01	61
1N5526	6.8	1	30	1.0	5.5	6.2	1.0	0.10	0.01	56
1N5527	7.5	1	35	0.5	6.0	6.8	2.0	0.05	0.01	51
1N5528	8.2	1	40	0.5	6.5	7.5	4.0	0.05	0.01	46
1N5529	9.1	1	45	0.1	7.0	8.2	4.0	0.05	0.01	42
1N5530	10.0	1	60	0.05	8.0	9.1	4.0	0.10	0.01	38
1N5531	11.0	1	80	0.05	9.0	9.9	5.0	0.20	0.01	35
1N5532	12.0	1	90	0.05	9.5	10.8	10.0	0.20	0.01	32
1N5533	13.0	1	90	0.01	10.5	11.7	15.0	0.20	0.01	29
1N5534	14.0	1	100	0.01	11.5	12.6	20.0	0.20	0.01	27
1N5535	15.0	1	100	0.01	12.5	13.5	20.0	0.20	0.01	25
1N5536	16.0	1	100	0.01	13.0	14.4	20.0	0.20	0.01	24
1N5537	17.0	1	100	0.01	14.0	15.3	20.0	0.20	0.01	22
1N5538	18.0	1	100	0.01	15.0	16.2	20.0	0.20	0.01	21
1N5539	19.0	1	100	0.01	16.0	17.1	20.0	0.20	0.01	20
1N5540	20.0	1	100	0.01	17.0	18.0	20.0	0.20	0.01	19
1N5541	22.0	1	100	0.01	18.0	19.8	25.0	0.25	0.01	17
1N5542	24.0	1	100	0.01	20.0	21.6	30.0	0.30	0.01	16
1N5543	25.0	1	100	0.01	21.0	22.4	35.0	0.35	0.01	15
1N5544	28.0	1	100	0.01	23.0	25.2	40.0	0.40	0.01	14
1N5545	30.0	1	100	0.01	24.0	27.0	45.0	0.45	0.01	13
1N5546	33.0	1	100	0.01	28.0	29.7	50.0	0.50	0.01	12

1. Package Style DO-7

2. Suffix denotes Vz tolerance: non suffix $\pm 20\%$, A suffix $\pm 10\%$: Ir @ Vr1, Vz, + Vf only.
Suffix B $\pm 5\%$: Ir @ Vr2, Vz, Δ Vz, Vf, ND.

3. Measured with 10%, 60 Hz AC superimposed on Iz.

4. Measured from 1000 to 3000 Hz.

5. Difference between Vz at Iz and IzL.

6. Forward Voltage (Vf): If = 200mA, Ta = 25°C, Max = 1.1 Vdc.

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