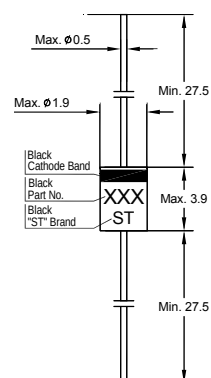


1N4099...1N4131

Silicon Planar Low Noise Zener Diodes

Features

- Low noise
- Low reverse leakage



Glass Case DO-35
Dimensions in mm

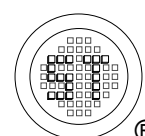
Absolute Maximum Ratings ($T_a = 25\text{ °C}$)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_{stg}	- 55 to + 175	°C

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

Characteristics at $T_a = 25\text{ °C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.1	V



1N4099...1N4131

Characteristics at $T_a = 25^\circ\text{C}$

Type	Zener Voltage Range ²⁾				Dynamic Resistance		Reverse Current		Maximum Zener Current
	V_{Znom} ¹⁾	V_Z		at I_{ZT}	Z_{ZT}	at I_{ZT}	I_R	at V_R	I_{ZM}
	(V)	Min. (V)	Max. (V)	(μA)	Max. (Ω)	(mA)	Max. (μA)	(V)	(mA)
1N4099	6.8	6.46	7.14	250	8	5	10	5.17	56
1N4100	7.5	7.125	7.875	250	7	5	10	5.7	51
1N4101	8.2	7.79	8.61	250	7	5	1	6.24	46
1N4103	9.1	8.65	9.55	250	10	5	1	6.92	42
1N4104	10	9.5	10.5	250	15	5	1	7.6	38
1N4105	11	10.45	11.55	250	20	5	0.05	8.44	35
1N4106	12	11.4	12.6	250	20	5	0.05	9.12	32
1N4107	13	12.35	13.65	250	26	5	0.05	9.87	29
1N4109	15	14.25	15.75	250	30	5	0.05	11.4	25
1N4110	16	15.2	16.8	250	40	5	0.05	12.15	24
1N4112	18	17.1	18.9	250	50	5	0.05	13.67	21
1N4114	20	19	21	250	55	5	0.01	15.2	19
1N4115	22	20.9	23.1	250	55	5	0.01	16.72	17
1N4116	24	22.8	25.2	250	80	5	0.01	18.25	16
1N4118	27	25.65	28.35	250	80	5	0.01	20.45	14
1N4120	30	28.5	31.5	250	80	5	0.01	22.8	13
1N4121	33	31.35	34.65	250	80	5	0.01	25.08	12
1N4122	36	34.2	37.8	250	80	5	0.01	27.38	11
1N4123	39	37.05	40.95	250	90	5	0.01	29.65	9.8
1N4124	43	40.85	45.15	250	90	5	0.01	32.65	8.9
1N4125	47	44.65	49.35	250	110	5	0.01	35.75	8.1
1N4126	51	48.45	53.55	250	125	5	0.01	38.76	7.5
1N4127	56	53.2	58.8	250	135	5	0.01	42.6	6.7
1N4129	62	58.9	65.1	250	150	5	0.01	47.1	6.1
1N4130	68	64.6	71.4	250	200	5	0.01	51.68	5.6
1N4131	75	71.25	78.75	250	250	5	0.01	57	5.1

¹⁾ The type numbers shown above have a standard tolerance of $\pm 5\%$ on the nominal Zener voltage.

²⁾ Tested with pulses $t_p = 20$ ms.

