



TOLL FREE NUMBER 800-777-3960

silicon zener diodes

NOTES: The following notes explain variations in the standard type numbers listed for Silicon Zener Diodes. "Note" numbers are inserted above type numbers in the "Type" column. A note number then pertains to all types which follow it, up to that point where another note number is inserted and takes effect for subsequent types.

- 1. Standard tolerances of 5.0% and 10% are available — no suffix is ±10% tolerance; suffix "A" denotes ±5% tolerance.
2. Standard tolerance of ±5%.
3. Standard tolerance of ±20%.
4. Standard tolerances of 5.0%, 10%, and 20% are available — no suffix is 20% tolerance; suffix "A" denotes ±10% tolerance; suffix "B" is ±5% tolerance.
5. Reverse polarity types available; add suffix "R."
6. Standard tolerances of 1.0%, 5.0% and 10% are available — no suffix is ±10%; suffix "A" denotes ±5% tolerance; suffix "B" is ±1%.
7. Standard tolerance of ±15%.
8. Impedance is derived from the 60 cycle AC voltage which results when an AC current having an RMS value equal to 10% of the DC Zener current is superimposed upon the DC current.
9. Standard tolerance of ±10%.
10. Standard types are ±10% tolerance; suffix "A" denotes ±5% tolerance; suffix "C" denotes ±10% clipper; suffix "CA" denotes ±5% clipper.

silicon zener diodes cont'd

5 watt DO-27 case style

Table with columns: JEDEC TYPE NUMBER, NOMINAL ZENER VOLTAGE Vz VOLTS, TEST CURRENT Izt mA, MAXIMUM ZENER IMPEDANCE A & B SUFFIX ONLY (Zzt @ Izt Ohms, Zzk @ Izk Ohms, Izk mA). Includes types 1N5333 to 1N5360.

Table with columns: JEDEC TYPE NUMBER, NOMINAL ZENER VOLTAGE Vz VOLTS, TEST CURRENT Izt mA, MAXIMUM ZENER IMPEDANCE A & B SUFFIX ONLY (Zzt @ Izt Ohms, Zzk @ Izk Ohms, Izk mA). Includes types 1N5361 to 1N5388.

10 watt DO-4 case style

Table with columns: Type, Zener Voltage Vz (volts), Dynamic Resistance R0 (ohms) (Note 8), Zener Current Iz (mA), Case Style. Includes types 1N2041-1 to 1N2500.

Table with columns: Type, Zener Voltage Vz (volts), Dynamic Resistance R0 (ohms) (Note 8), Zener Current Iz (mA), Case Style. Includes types 1N2970 to 1N2997.

Table with columns: Type, Zener Voltage Vz (volts), Dynamic Resistance R0 (ohms) (Note 8), Zener Current Iz (mA), Case Style. Includes types 1N2998 to 1N4000.

Semitronics Corp.

silicon voltage reference diodes

temperature compensated
200 milliwatt

Type	Nom. Zener Voltage, Vz (volts)	Dynamic Impedance, Zz (ohms)	Zener Current Iz (mA)	Temp. Coefficient (% per °C)	Temp. Range (°C)	Case Style
1N429	6.2	20	7	± .01	-55/+100	C-1
1N1735	6.2	20	—	± .01	-55/+100	A-27h

250 milliwatt

1N430	8.4	15	10	±0.002	-55/+100	S-20
1N430A	8.4	15	10	±0.001	-55/+100	S-20
1N621	6.2	15	7.5	±0.01	-55/+100	DO-7
1N621A	6.2	10	7.5	±0.01	-55/+100	DO-7
1N623	6.2	15	7.5	±0.005	-55/+100	DO-7
1N623A	6.2	10	7.5	±0.005	-55/+100	DO-7
1N624	6.2	15	7.5	±0.005	-55/+100	DO-7
1N625	6.2	15	7.5	±0.002	-55/+100	DO-7
1N625A	6.2	10	7.5	±0.002	-55/+100	DO-7
1N627	6.2	15	7.5	±0.001	-55/+100	DO-7
1N627A	6.2	10	7.5	±0.001	-55/+100	DO-7
1N629	6.2	15	7.5	±0.0005	-55/+100	DO-7
1N629A	6.2	10	7.5	±0.0005	-55/+100	DO-7
1N2765	6.8	20	7.5	±0.005	-55/+100	A-48c
1N2765A	6.8	20	7.5	±0.002	-55/+100	A-48c
1N3496	6.2	15	7.5	±0.005	0/+75	DO-7
1N3497	6.2	15	7.5	±0.002	0/+75	DO-7
1N3498	6.2	15	7.5	±0.001	0/+75	DO-7
1N3499	6.2	15	7.5	±0.0005	0/+75	DO-7
1N3500	6.2	15	7.5	±0.01	0/+75	DO-7
1N3553	6.3	15	7.5	±0.0001	-55/+100	DO-7
1N4770	9.1	200	1.0	±0.01	0/+75	DO-7
1N4770A	9.1	200	1.0	±0.01	-55/+100	DO-7
1N4771	9.1	200	1.0	±0.005	0/+75	DO-7
1N4771A	9.1	200	1.0	±0.005	-55/+100	DO-7
1N4772	9.1	200	1.0	±0.002	0/+75	DO-7
1N4772A	9.1	200	1.0	±0.002	-55/+100	DO-7
1N4773	9.1	200	1.0	±0.001	0/+75	DO-7
1N4773A	9.1	200	1.0	±0.001	-55/+100	DO-7
1N4780	8.5	100	1.0	±0.01	0/+75	DO-7
1N4780A	8.5	100	1.0	±0.01	-55/+100	DO-7
1N4781	8.5	100	1.0	±0.005	0/+75	DO-7
1N4781A	8.5	100	1.0	±0.005	-55/+100	DO-7
1N4782	8.5	100	1.0	±0.002	0/+75	DO-7
1N4782A	8.5	100	1.0	±0.002	-55/+100	DO-7
1N4783	8.5	100	1.0	±0.001	0/+75	DO-7
1N4783A	8.5	100	1.0	±0.001	-55/+100	DO-7
1N1736	12.4	40	7.5	±0.01	-55/+100	A-28b
1N1736A	12.4	40	7.5	±0.005	-55/+100	A-28b
1N2766	13.6	40	7.5	±0.005	-55/+100	A-48c
1N2766A	13.6	40	7.5	±0.0025	-55/+100	A-48c
1N3154	8.4	15	10.0	±0.01	-55/+100	DO-7
1N3154A	8.4	15	10.0	±0.01	-55/+150	DO-7
1N3155	8.4	15	10.0	±0.005	-55/+100	DO-7
1N3155A	8.4	15	10.0	±0.005	-55/+150	DO-7
1N3156	8.4	15	10.0	±0.002	-55/+100	DO-7
1N3157	8.4	15	10.0	±0.001	-55/+100	DO-7
1N3157A	8.4	15	10.0	±0.001	-55/+150	DO-7
1N4295	10	20	10	±0.012	-55/+150	A-97
1N4295A	10	20	10	±0.012	-55/+100	A-97
1N4570	6.4	100	1.0	±0.01	0/+75	DO-7
1N4570A	6.4	100	1.0	±0.01	-55/+100	DO-7
1N4571	6.4	100	1.0	±0.005	0/+75	DO-7
1N4571A	6.4	100	1.0	±0.005	-55/+100	DO-7
1N4572	6.4	100	1.0	±0.002	0/+75	DO-7
1N4572A	6.4	100	1.0	±0.002	-55/+100	DO-7
1N4573	6.4	100	1.0	±0.001	0/+75	DO-7
1N4573A	6.4	100	1.0	±0.001	-55/+100	DO-7

400 milliwatt

500 milliwatt

Type	Nom. Zener Voltage, Vz (volts)	Dynamic Impedance, Zz (ohms)	Zener Current Iz (mA)	Temp. Coefficient (% per °C)	Temp. Range (°C)	Case Style
1N935	9.0	20	7.5	± .01	0/+75	DO-7
1N935A	9.0	20	7.5	± .01	-55/+100	DO-7
1N935B	9.0	20	7.5	± .01	-55/+150	DO-7
1N936	9.0	20	7.5	± .005	0/+75	DO-7
1N936A	9.0	20	7.5	± .005	-55/+100	DO-7
1N936B	9.0	20	7.5	± .005	-55/+150	DO-7
1N937	9.0	20	7.5	± .002	0/+75	DO-7
1N937A	9.0	20	7.5	± .002	-55/+100	DO-7
1N937B	9.0	20	7.5	± .002	-55/+150	DO-7
1N938	9.0	20	7.5	± .001	0/+75	DO-7
1N938A	9.0	20	7.5	± .001	-55/+100	DO-7
1N938B	9.0	20	7.5	± .001	-55/+150	DO-7
1N939	9.0	20	7.5	± .0005	0/+75	DO-7
1N939A	9.0	20	7.5	± .0005	-55/+100	DO-7
1N939B	9.0	20	7.5	± .0005	-55/+150	DO-7
1N940	9.0	20	7.5	± .0002	0/+75	DO-7
1N940A	9.0	20	7.5	± .0002	-55/+100	DO-7
1N940B	9.0	20	7.5	± .0002	-55/+150	DO-7
1N941	11.7	30	7.5	±0.01	0/+75	DO-7
1N941A	11.7	30	7.5	±0.01	-55/+100	DO-7
1N941B	11.7	30	7.5	±0.01	-55/+150	DO-7
1N942	11.7	30	7.5	±0.005	0/+75	DO-7
1N942A	11.7	30	7.5	±0.005	-55/+100	DO-7
1N942B	11.7	30	7.5	±0.005	-55/+150	DO-7
1N943	11.7	30	7.5	±0.002	0/+75	DO-7
1N943A	11.7	30	7.5	±0.002	-55/+100	DO-7
1N943B	11.7	30	7.5	±0.002	-55/+150	DO-7
1N944	11.7	30	7.5	±0.001	0/+75	DO-7
1N944A	11.7	30	7.5	±0.001	-55/+100	DO-7
1N944B	11.7	30	7.5	±0.001	-55/+150	DO-7
1N945	11.7	30	7.5	±0.0005	0/+75	DO-7
1N945A	11.7	30	7.5	±0.0005	-55/+100	DO-7
1N945B	11.7	30	7.5	±0.0005	-55/+150	DO-7
1N946	11.7	30	7.5	±0.0002	0/+75	DO-7
1N946A	11.7	30	7.5	±0.0002	-55/+100	DO-7
1N946B	11.7	30	7.5	±0.0002	-55/+150	DO-7
1N2163	9.4	15	10	0.005	0/+70	DO-13
1N2163A	9.4	15	10	0.005	0/+70	DO-13
1N2164	9.4	15	10	0.005	55/+125	DO-13
1N2164A	9.4	15	10	0.005	55/+125	DO-13
1N2165	9.4	15	10	0.005	-55/+185	DO-13
1N2165A	9.4	15	10	0.005	-55/+185	DO-13
1N2166	9.4	15	10	0.001	0/+70	DO-13
1N2166A	9.4	15	10	0.001	0/+70	DO-13
1N2167	9.4	15	10	0.001	-55/+125	DO-13
1N2167A	9.4	15	10	0.001	-55/+125	DO-13
1N2168	9.4	15	10	0.001	-55/+185	DO-13
1N2168A	9.4	15	10	0.001	-55/+185	DO-13
1N2169	9.4	15	10	0.005	0/+70	DO-13
1N2169A	9.4	15	10	0.005	0/+70	DO-13
1N2170	9.4	15	10	0.005	55/+125	DO-13
1N2170A	9.4	15	10	0.005	-55/+125	DO-13
1N2171	9.4	15	10	0.005	-55/+185	DO-13
1N2171A	9.4	15	10	0.005	-55/+185	DO-13
1N2620	9.3	15	10	0.01	0/+75	DO-13
1N2620A	9.3	15	10	0.01	-55/+100	DO-13
1N2620B	9.3	15	10	0.01	55/+150	DO-13
1N2621	9.3	15	10	0.005	0/+75	DO-13
1N2621A	9.3	15	10	0.005	-55/+100	DO-13
1N2621B	9.3	15	10	0.005	-55/+150	DO-13
1N2622	9.3	15	10	0.002	0/+75	DO-13
1N2622A	9.3	15	10	0.002	-55/+100	DO-13
1N2622B	9.3	15	10	0.002	-55/+150	DO-13
1N2623	9.3	15	10	0.001	0/+75	DO-13
1N2623A	9.3	15	10	0.001	-55/+100	DO-13
1N2623B	9.3	15	10	0.001	55/+150	DO-13
1N2624	9.3	15	10	0.0005	0/+75	DO-13
1N2624A	9.3	15	10	0.0005	-55/+100	DO-13
1N2624B	9.3	15	10	0.0005	-55/+150	DO-13
1N3580	11.7	25	7.5	0.01	0/+75	DO-13
1N3580A	11.7	25	7.5	0.01	-55/+100	DO-13

750 milliwatt