



Micro Commercial Components

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ZY1 THRU ZY200

Silicon 2.0 Watt Zener Diodes

Features

- Silicon Power Zener Diodes
- 1.0 thru 200 Volt Voltage Range
- Standard Tolerance of Zener Voltage $\pm 5\%$

Mechanical Data

- Plastic Case: DO-41
- Weight Approx: 0.33 g
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings @ 25°C Unless Otherwise Specified

Power Dissipation	P_{tot}	2.0	Watt
Thermal Resistance Junction to Ambient Air	R_{thJA}	<45	K/W
Thermal Resistance Junction to Terminal	R_{thJT}	<15	K/W
Operation Temperature	T_J	-50°C to +150°C	
Storage Temperature	T_{STG}	-50°C to +175°C	

DO-41

Cathode Mark

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.160	0.205	4.10	5.20	
B	0.080	0.107	2.00	2.70	Diameter
C	0.028	0.034	0.71	0.86	Diameter
D	1.000	-----	25.40	-----	

ZY1 thru ZY200

Maximum ratings

Type Typ	Zener voltage ²⁾ Zener-Spanng. ²⁾ $I_Z = I_{Ztest}$ V_{Zmin} [V] V_{Zmax}		Test current Meßstrom I_{Ztest} [mA]	Dyn. resistance Diff. Widerst. $I_{Ztest} / 1 \text{ kHz}$ r_{zj} [Ω]	Temp. Coeffiz. of Z-voltage ...der Z-spanng. α_{VZ} [$10^{-4}/^\circ\text{C}$]	Reverse volt. Sperrspanng. $I_R = 1 \mu\text{A}$ V_R [V]	Z-current ¹⁾ Z-Strom ¹⁾ $T_A = 50^\circ\text{C}$ I_{Zmax} [mA]
ZY 1 ³⁾	0.71	0.82	100	0.5 (<1)	-26...-16	-	1500
ZY 3.9	3.7	4.1	100	3.8 (<7)	-7...+2	-	439
ZY 4.3	4.0	4.6	100	3.8 (<7)	-7...+3	-	391
ZY 4.7	4.4	5.0	100	3 (<6)	-7...+4	-	360
ZY 5.1	4.8	5.4	100	2 (<5)	-6...+5	-	333
ZY 5.6	5.2	6.0	100	1 (<3)	-3...+5	> 1.5	300
ZY 6.2	5.8	6.6	100	1 (<2)	-1...+6	> 1.5	273
ZY 6.8	6.4	7.2	100	1 (<2)	0...+7	> 2	250
ZY 7.5	7.0	7.9	100	1 (<2)	0...+7	> 2	228
ZY 8.2	7.7	8.7	100	1 (<2)	+3...+8	> 3.5	207
ZY 9.1	8.5	9.6	50	2 (<4)	+3...+8	> 3.5	188
ZY 10	9.4	10.6	50	2 (<4)	+5...+9	> 5	170
ZY 11	10.4	11.6	50	3 (<6)	+5...+10	> 5	155
ZY 12	11.4	12.7	50	4 (<7)	+5...+10	> 7	142
ZY 13	12.4	14.1	50	5 (<9)	+5...+10	> 7	128
ZY 15	13.8	15.6	50	5 (<10)	+5...+10	> 10	115
ZY 16	15.3	17.1	25	6 (<12)	+6...+11	> 10	105
ZY 18	16.8	19.1	25	6 (<15)	+6...+11	> 10	94
ZY 20	18.8	21.2	25	6 (<15)	+6...+11	> 10	85
ZY 22	20.8	23.3	25	6 (<15)	+6...+11	> 12	77
ZY 24	22.8	25.6	25	7 (<15)	+6...+11	> 12	70
ZY 27	25.1	28.9	25	7 (<15)	+6...+11	> 14	62
ZY 30	28	32	25	8 (<15)	+6...+11	> 14	56
ZY 33	31	35	25	8 (<15)	+6...+11	> 17	51
ZY 36	34	38	10	16 (<30)	+6...+11	> 17	47
ZY 39	37	41	10	20 (<40)	+6...+11	> 20	44
ZY 43	40	46	10	24 (<40)	+7...+12	> 20	39
ZY 47	44	50	10	24 (<40)	+7...+12	> 24	36
ZY 51	48	54	10	25 (<60)	+7...+12	> 24	33
ZY 56	52	60	10	25 (<60)	+7...+12	> 28	30
ZY 62	58	66	10	25 (<80)	+8...+13	> 28	27
ZY 68	64	72	10	25 (<80)	+8...+13	> 34	25
ZY 75	70	79	10	30 (<100)	+8...+13	> 34	23
ZY 82	77	88	10	30 (<100)	+8...+13	> 41	20
ZY 91	85	96	5	40 (<150)	+9...+13	> 41	19
ZY 100	94	106	5	60 (<150)	+9...+13	> 50	17
ZY 110	104	116	5	80 (<200)	+9...+13	> 50	16
ZY 120	114	127	5	80 (<200)	+9...+13	> 60	14
ZY 130	124	141	5	90 (<250)	+9...+13	> 60	13
ZY 150	138	156	5	100 (<250)	+9...+13	> 75	12
ZY 160	153	171	5	110 (<300)	+9...+13	> 75	11
ZY 180	168	191	5	120 (<350)	+9...+13	> 90	9
ZY 200	188	212	5	150 (<350)	+9...+13	> 90	8



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