



Micro Commercial Components

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ZPY1 THRU ZPY200

Silicon 1.3 Watt Zener Diodes

Features

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

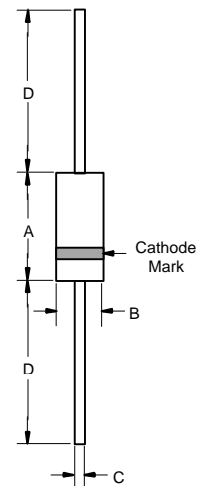
Mechanical Data

- Plastic Case: DO-41
- Weight Approx: 0.4 g

Maximum Ratings @ 25°C Unless Otherwise Specified

Power Dissipation	P_{tot}	1.3	Watt
Thermal Resistance Junction to Ambient Air	R_{thA}	<45	K/W
Thermal Resistance Junction to Terminal	R_{thT}	<15	K/W
Operation Temperature	T_J	-50°C to +150°C	
Storage Temperature	T_{STG}	-50°C to +175°C	

DO-41



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	-----	

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]
ZPY 1 ³⁾	0.71	0.82	100	0.5 (<1)	-26...-16	-	1000
ZPY 3.9	3.7	4.1	100	4 (<6)	-7...+2	-	317
ZPY 4.3	4.0	4.6	100	3.8 (<6)	-7...+3	-	283
ZPY 4.7	4.4	5.0	100	3 (<5)	-7...+4	-	260
ZPY 5.1	4.8	5.4	100	2 (<3)	-6...+5	-	241
ZPY 5.6	5.2	6.0	100	1 (<2)	-3...+5	> 1.5	217
ZPY 6.2	5.8	6.6	100	1 (<2)	-1...+6	> 1.5	197
ZPY 6.8	6.4	7.2	100	1 (<2)	0...+7	> 2	181
ZPY 7.5	7.0	7.9	100	1 (<2)	0...+7	> 2	165
ZPY 8.2	7.7	8.7	100	1 (<2)	+3...+8	> 3.5	149
ZPY 9.1	8.5	9.6	50	2 (<4)	+3...+8	> 3.5	135
ZPY 10	9.4	10.6	50	2 (<4)	+5...+9	> 5	123
ZPY 11	10.4	11.6	50	4 (<7)	+5...+10	> 5	112
ZPY 12	11.4	12.7	50	4 (<7)	+5...+10	> 7	102
ZPY 13	12.4	14.1	50	5 (<10)	+5...+10	> 7	92
ZPY 15	13.8	15.6	50	5 (<10)	+5...+10	> 10	83
ZPY 16	15.3	17.1	25	6 (<15)	+6...+11	> 10	76
ZPY 18	16.8	19.1	25	6 (<15)	+6...+11	> 10	68
ZPY 20	18.8	21.2	25	6 (<15)	+6...+11	> 10	61
ZPY 22	20.8	23.3	25	6 (<15)	+6...+11	> 12	56
ZPY 24	22.8	25.6	25	7 (<15)	+6...+11	> 12	51
ZPY 27	25.1	28.9	25	7 (<15)	+6...+11	> 14	45
ZPY 30	28	32	25	8 (<15)	+6...+11	> 14	41
ZPY 33	31	35	25	8 (<15)	+6...+11	> 17	37
ZPY 36	34	38	10	16 (<30)	+6...+11	> 17	34
ZPY 39	37	41	10	20 (<40)	+6...+11	> 20	32
ZPY 43	40	46	10	24 (<40)	+7...+12	> 20	28
ZPY 47	44	50	10	24 (<40)	+7...+12	> 24	26
ZPY 51	48	54	10	25 (<60)	+7...+12	> 24	24
ZPY 56	52	60	10	25 (<60)	+7...+12	> 28	22
ZPY 62	58	66	10	25 (<80)	+8...+13	> 28	20
ZPY 68	64	72	10	25 (<80)	+8...+13	> 34	18
ZPY 75	70	79	10	30 (<100)	+8...+13	> 34	16
ZPY 82	77	88	10	30 (<100)	+8...+13	> 41	15
ZPY 91	85	96	5	40 (<150)	+9...+13	> 41	14
ZPY 100	94	106	5	60 (<150)	+9...+13	> 50	12
ZPY 110	104	116	5	80 (<200)	+9...+13	> 50	11
ZPY 120	114	127	5	80 (<200)	+9...+13	> 60	10
ZPY 130	124	141	5	90 (<250)	+9...+13	> 60	9
ZPY 150	138	156	5	100 (<250)	+9...+13	> 75	8
ZPY 160	153	171	5	110 (<300)	+9...+13	> 75	8
ZPY 180	168	191	5	120 (<350)	+9...+13	> 90	7
ZPY 200	188	212	5	150 (<350)	+9...+13	> 90	6