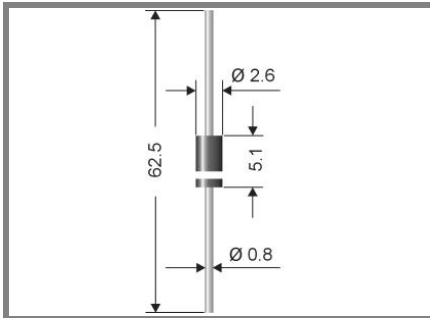


ZPY 1 ... ZPY 200 (1,3W)



Axial lead diode

Zener silicon diodes

ZPY 1...ZPY 200(1,3W)

Maximum Power Dissipation: 1,3 W

Nominal Z-voltage: 1 to 200 V

Features

- max. solder temperature: 260°C
- Plastic material has UL classification 94V-0
- Standard Zener voltage tolerance is graded to the international E 24 (5%) standard. Other voltage tolerances and higher Zener voltages on request.

Mechanical Data

- Plastic case DO-41 / DO-204AL
- Weight approx.: 0,4 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 5000 pieces per ammo

- 1) Valid, if leads are kept at ambient temperature at a distance of 10 mm from case
- 2) Tested with pulses
- 3) The ZPY1 is a diode operated in forward. The cathode, indicated by a ring, is to be connected to the negative pole.

Absolute Maximum Ratings		$T_c = 25\text{ }^\circ\text{C}$, unless otherwise specified	
Symbol	Conditions	Values	Units
P_{tot}	Power dissipation, $T_A = 50\text{ }^\circ\text{C}$ ¹⁾	1,3	W
P_{ZSM}	Non repetitive peak power dissipation, $t < 10\text{ ms}$	40	W
R_{thA}	Max. thermal resistance junction to ambient	45	K/W
R_{thT}	Max. thermal resistance junction to terminal	15	K/W
T_j	Operating junction temperature	- 50 ... + 150	$^\circ\text{C}$
T_s	Storage temperature	- 50 ... + 175	$^\circ\text{C}$

Type	Zener Voltage ²⁾ $V_Z@I_{ZT}$		Test curr. I_{ZT} mA	Dyn. Resistance $Z_{ZT}@I_{ZT}$ Ω	Temp. Coeffiz. of V_Z a_{VZ} $10^{-4}/^\circ\text{C}$			Z-curr. ¹⁾ $T_A = 50\text{ }^\circ\text{C}$ $I_{Z\text{max}}$ mA
	$V_{Z\text{min}}$ V	$V_{Z\text{max}}$ V				I_R μA	V_R V	
ZPY 1 ³⁾	0,71	0,82	100	0,5 (<1)	- 26 ... - 16	1	-	1000
ZPY 10	9,4	10,6	50	2 (<4)	+ 5 ... + 9	1	> 5	123
ZPY 11	10,4	11,6	50	4 (<7)	+ 5 ... + 10	1	> 5	112
ZPY 12	11,4	12,7	50	4 (<7)	+ 5 ... + 10	1	> 7	102
ZPY 13	12,4	14,1	50	5 (<10)	+ 5 ... + 10	1	> 7	92
ZPY 15	13,8	15,6	50	5 (<10)	+ 5 ... + 10	1	> 10	83
ZPY 16	15,3	17,1	25	6 (<15)	+ 6 ... + 11	1	> 10	76
ZPY 18	16,8	19,1	25	6 (<15)	+ 6 ... + 11	1	> 10	68
ZPY 20	18,8	21,2	25	6 (<15)	+ 6 ... + 11	1	> 10	61
ZPY 22	20,8	23,3	25	6 (<15)	+ 6 ... + 11	1	> 12	56
ZPY 24	22,8	25,6	25	7 (<15)	+ 6 ... + 11	1	> 12	51
ZPY 27	25,1	28,9	25	7 (<15)	+ 6 ... + 11	1	> 14	45
ZPY 30	28	32	25	8 (<15)	+ 6 ... + 11	1	> 14	41
ZPY 33	31	35	25	8 (<15)	+ 6 ... + 11	1	> 17	37
ZPY 36	34	38	10	16 (<40)	+ 6 ... + 11	1	> 17	34
ZPY 39	37	41	10	20 (<40)	+ 6 ... + 11	1	> 20	32
ZPY 43	40	46	10	24 (<45)	+ 7 ... + 12	1	> 20	28
ZPY 47	44	50	10	24 (<45)	+ 7 ... + 12	1	> 24	26
ZPY 51	48	54	10	25 (<60)	+ 7 ... + 12	1	> 24	24
ZPY 56	52	60	10	25 (<60)	+ 7 ... + 12	1	> 28	22
ZPY 62	58	66	10	25 (<80)	+ 8 ... + 13	1	> 28	20
ZPY 68	64	72	10	25 (<80)	+ 8 ... + 13	1	> 34	18
ZPY 75	70	79	10	30 (<100)	+ 8 ... + 13	1	> 34	16
ZPY 82	77	88	10	30 (<100)	+ 8 ... + 13	1	> 41	15
ZPY 91	85	96	5	40 (<200)	+ 9 ... + 13	1	> 41	14
ZPY 100	94	106	5	60 (<200)	+ 9 ... + 13	1	> 50	12
ZPY 110	104	116	5	80 (<250)	+ 9 ... + 13	1	> 50	11
ZPY 120	114	127	5	80 (<250)	+ 9 ... + 13	1	> 60	10
ZPY 130	124	141	5	90 (<300)	+ 9 ... + 13	1	> 60	9
ZPY 150	138	156	5	100(<300)	+ 9 ... + 13	1	> 75	8
ZPY 160	153	171	5	110(<350)	+ 9 ... + 13	1	> 75	8
ZPY 180	168	191	5	120(<350)	+ 9 ... + 13	1	> 90	7
ZPY 200	188	212	5	150(<350)	+ 9 ... + 13	1	> 90	6