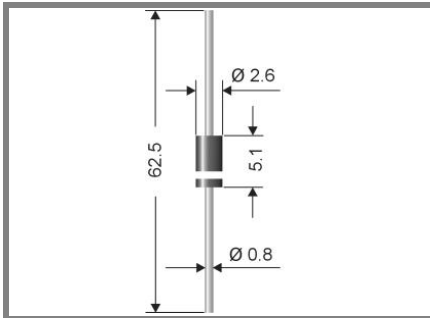


# ZPY 1 ... ZPY 200 (1,3W)



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

Type	Zener Voltage <sup>2)</sup> $V_Z@I_{ZT}$		Test curr. $I_{ZT}$ mA	Dyn. Resistance $Z_{ZT}@I_{ZT}$ $\Omega$	Temp. Coeffiz. of $V_Z$ $a_{VZ}$ $10^{-4}/^\circ\text{C}$	Z- curr. <sup>1)</sup> $T_A = 50^\circ\text{C}$		
	$V_{Z\text{min}}$ V	$V_{Z\text{max}}$ V				$I_R$ $\mu\text{A}$	$V_R$ V	$I_{Z\text{max}}$ mA
ZPY 1 <sup>3)</sup>	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