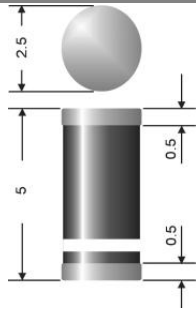


# ZMY 1 ... ZMY 200 (1,3W)



Surface mount diode

## Zener silicon diodes

### ZMY 1...ZMY 200

**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 Melf / DO-213AB
- Weight approx.: 0.12 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 5000 pieces per reel

1) Mounted on P.C. board with 50 mm<sup>2</sup> copper pads at each terminal

2) Tested with pulses

3) The ZMY1 is a diode operated in forward. Hence, the index of all parameters should be "F" instead of "Z". The cathode, indicated by a white ring is to be connected to the negative pole.

Absolute Maximum Ratings		T <sub>c</sub> = 25 °C, unless otherwise specified	
Symbol	Conditions	Values	Units
P <sub>tot</sub>	Power dissipation, T <sub>A</sub> = 50 °C <sup>1)</sup>	1,3	W
P <sub>ZSM</sub>	Non repetitive peak power dissipation, t < 10 ms	40	W
R <sub>thA</sub>	Max. thermal resistance junction to ambient	45	K/W
R <sub>thT</sub>	Max. thermal resistance junction to terminal	10	K/W
T <sub>j</sub>	Operating junction temperature	- 50 ... + 150	°C
T <sub>s</sub>	Storage temperature	- 50 ... + 175	°C

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