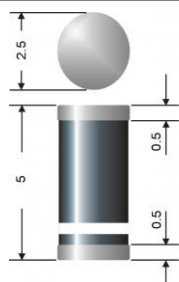


SZ3C 1 ... SZ3C 200 (3W)



Surface mount diode

Zener silicon diodes

SZ3C 1 ... SZ3C 200 (3W)

**Maximum Power
Dissipation: 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

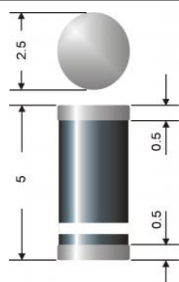
- Plastic case: Melf / DO-213AB
- Weight approx.: 0,12 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 5000 pieces per reel

¹⁾ Mounted on P.C. board with 50 mm² copper pads at each terminal. Tested with pulses. The SZ3C1 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 _s = 25 °C, unless otherwise specified	
Symbol	Conditions	Values	Units
P _{tot}	Power dissipation, T _A = 50 °C ¹⁾	3	W
P _{ZSM}	Non repetitive peak power dissipation, t < 10 ms	60	V
R _{thA}	Max. thermal resistance junction to ambient ¹⁾	33	K/W
R _{thT}	Max. thermal resistance junction to case	10	K/W
T _j	Operating junction temperature	- 50 ... + 150	°C
T _s	Storage temperature	- 50 ... + 175	°C

Type	Zener Voltage V _Z @I _{ZT}		Test curr. I _{ZT} mA	Dyn. Resistance Z _{YT} @ I _{ZT}	Temp. Coeff. of V _Z 10 ⁻⁴ °C	Reverse curr.		Z curr. T _A = 50 °C i _{Zmax} mA
	V _{Zmin} V	V _{Zmax} V				I _R µA	V _R V	
SZ3C 1 ³⁾	0,71	0,82	100	0,5 (<1)	- 26 ... - 16		-	2000
SZ3C 6,2	5,8	6,6	100	1 (<2)	- 1 ... + 6	1	> 1,5	455
SZ3C 6,8	6,4	7,2	100	1 (<2)	0 ... + 7	1	> 2	417
SZ3C 7,5	7	7,9	100	1 (<2)	0 ... + 7	1	> 2	380
SZ3C 8,2	7,7	8,7	100	1 (<2)	+ 3 ... + 8	1	> 3,5	345
SZ3C 9,1	8,5	9,6	50	2 (<4)	+ 3 ... + 8	1	> 3,5	313
SZ3C 10	9,4	10,6	50	2 (<4)	+ 5 ... + 9	1	> 5	283
SZ3C 11	10,4	11,6	50	4 (<7)	+ 5 ... + 10	1	> 5	259
SZ3C 12	11,4	12,7	50	4 (<7)	+ 5 ... + 10	1	> 7	236
SZ3C 13	12,4	14,1	50	5 (<10)	+ 5 ... + 10	1	> 7	213
SZ3C 15	13,8	15,6	50	5 (<10)	+ 5 ... + 10	1	> 10	192
SZ3C 16	15,3	17,1	25	6 (<15)	+ 6 ... + 11	1	> 10	175
SZ3C 18	16,8	19,1	25	6 (<15)	+ 6 ... + 11	1	> 10	157
SZ3C 20	18,8	21,2	25	6 (<15)	+ 6 ... + 11	1	> 10	142
SZ3C 22	20,8	23,3	25	6 (<15)	+ 6 ... + 11	1	> 12	129
SZ3C 24	22,8	25,6	25	7 (<15)	+ 6 ... + 11	1	> 12	117
SZ3C 27	25,1	28,9	25	7 (<15)	+ 6 ... + 11	1	> 14	104
SZ3C 30	28	32	25	8 (<15)	+ 6 ... + 11	1	> 14	94
SZ3C 33	31	35	25	8 (<15)	+ 6 ... + 11	1	> 17	86
SZ3C 36	34	38	10	16 (<40)	+ 6 ... + 11	1	> 17	79
SZ3C 39	37	41	10	20 (<40)	+ 6 ... + 11	1	> 20	73
SZ3C 43	40	46	10	24 (<45)	+ 7 ... + 12	1	> 20	65
SZ3C 47	44	50	10	24 (<45)	+ 7 ... + 12	1	> 24	60
SZ3C 51	48	54	10	25 (<60)	+ 7 ... + 12	1	> 24	56
SZ3C 56	52	60	10	25 (<60)	+ 7 ... + 12	1	> 28	50
SZ3C 62	58	66	10	25 (<80)	+ 8 ... + 13	1	> 28	45
SZ3C 68	64	72	10	25 (<80)	+ 8 ... + 13	1	> 34	42
SZ3C 75	70	79	10	30 (<100)	+ 8 ... + 13	1	> 34	38
SZ3C 82	77	88	10	30 (<100)	+ 8 ... + 13	1	> 41	34
SZ3C 91	85	96	5	40 (<200)	+ 9 ... + 13	1	> 41	31
SZ3C 100	94	106	5	60 (<200)	+ 9 ... + 13	1	> 50	28
SZ3C 110	104	116	5	80 (<250)	+ 9 ... + 13	1	> 50	26
SZ3C 120	114	127	5	80 (<250)	+ 9 ... + 13	1	> 60	24
SZ3C 130	124	141	5	90 (<300)	+ 9 ... + 13	1	> 60	21
SZ3C 150	138	156	5	100(<300)	+ 9 ... + 13	1	> 75	19
SZ3C 160	153	171	5	110(<350)	+ 9 ... + 13	1	> 75	18
SZ3C 180	168	191	5	120(<350)	+ 9 ... + 13	1	> 90	16
SZ3C 200	188	212	5	150(<350)	+ 9 ... + 13	1	> 90	14

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Surface mount diode

Type	Zener Voltage $V_Z @ I_{ZT}$		Test curr. I_{ZT} mA	Dyn. Resistance $Z_{ZT} @ I_{ZT}$	Temp. Coeffiz. of V_Z 10^{-4} $^{\circ}\text{C}$	Reverse curr.		Z curr. $T_A = 50$ $^{\circ}\text{C}$ i_{Zmax} mA
	V_{Zmin} V	V_{Zmax} V				I_R μA	V_R V	

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