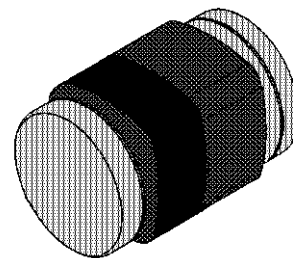


ZENER DIODES

LS-31

Features

- Sharp Breakdown characteristic.
- Vz: Applied E24 standard.
- Fits onto SOD 323 / SOT 23 footprints
- Micro Melf package

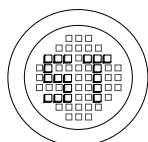


Applications

- Circuits for, Constant Voltage, Constant Current
Wave form clipper, Surge absorber, etc.

Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$)

	Symbol	Value	Unit
Power Dissipation	P	200	mW
Forward Current	I_F	100	mA
Reverse Surge Power	P_{RSM}	85	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_s	-55 to +150	$^{\circ}\text{C}$



®

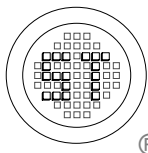
РАДИОТЕХ

Тел.: (495) 795-0805
 Факс: (495) 234-1603
 Эл. почта: info@rct.ru
 Веб: www.rct.ru

ZMC ... SB Series

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Type	Zener Voltage V_Z (V) ^{Note1}			Dynamic Impedance Z_Z (Ω) ^{Note2}		Reverse Current I_R (μA)	
	Min.	Max.	I_Z (mA)	Max.	I_Z (mA)	Max.	V_R (V)
ZMC2.0SB	1.80	2.15	5	100	5	120	0.5
ZMC2.2SB	2.10	2.40	5	100	5	120	0.7
ZMC2.4SB	2.30	2.60	5	100	5	120	1
ZMC2.7SB	2.50	2.90	5	110	5	120	1
ZMC2.7SB1	2.50	2.75					
ZMC2.7SB2	2.65	2.90					
ZMC3.0SB	2.80	3.20	5	120	5	50	1
ZMC3.0SB1	2.80	3.05					
ZMC3.0SB2	2.95	3.20					
ZMC3.3SB	3.10	3.50	5	130	5	20	1
ZMC3.3SB1	3.10	3.35					
ZMC3.3SB2	3.25	3.50					
ZMC3.6SB	3.40	3.80	5	130	5	10	1
ZMC3.6SB1	3.40	3.65					
ZMC3.6SB2	3.55	3.80					
ZMC3.9SB	3.70	4.10	5	130	5	10	1
ZMC3.9SB1	3.70	3.97					
ZMC3.9SB2	3.87	4.10					
ZMC4.3SB	4.00	4.49	5	130	5	10	1
ZMC4.3SB1	4.00	4.22					
ZMC4.3SB2	4.14	4.35					
ZMC4.3SB3	4.27	4.49					
ZMC4.7SB	4.40	4.92	5	130	5	10	1
ZMC4.7SB1	4.40	4.63					
ZMC4.7SB2	4.53	4.77					
ZMC4.7SB3	4.67	4.92					
ZMC5.1SB	4.82	5.39	5	130	5	5	1.5
ZMC5.1SB1	4.82	5.06					
ZMC5.1SB2	4.96	5.22					
ZMC5.1SB3	5.12	5.39					
ZMC5.6SB	5.29	5.94	5	80	5	5	2.5
ZMC5.6SB1	5.29	5.57					
ZMC5.6SB2	5.47	5.75					
ZMC5.6SB3	5.65	5.94					
ZMC6.2SB	5.84	6.55	5	50	5	2	3
ZMC6.2SB1	5.84	6.14					
ZMC6.2SB2	6.04	6.35					
ZMC6.2SB3	6.24	6.55					
ZMC6.8SB	6.44	7.17	5	30	5	2	3.5
ZMC6.8SB1	6.44	6.76					
ZMC6.8SB2	6.62	6.96					
ZMC6.8SB3	6.83	7.17					
ZMC7.5SB	7.03	7.87	5	30	5	2	4
ZMC7.5SB1	7.03	7.39					
ZMC7.5SB2	7.25	7.63					
ZMC7.5SB3	7.49	7.87					
ZMC8.2SB	7.73	8.67	5	30	5	2	5
ZMC8.2SB1	7.73	8.13					
ZMC8.2SB2	7.98	8.39					
ZMC8.2SB3	8.25	8.67					



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 550-159-04-002-04

Dated : 22/01/2005

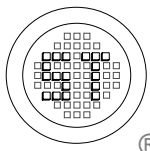
ZMC ... SB Series

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Type	Zener Voltage V_Z (V) ^{Note1}			Dynamic Impedance Z_Z (Ω) ^{Note2}		Reverse Current I_R (μA)	
	Min.	Max.	I_Z (mA)	Max.	I_Z (mA)	Max.	V_R (V)
ZMC9.1SB	8.53	9.58	5	30	5	2	6
ZMC9.1SB1	8.53	8.96					
ZMC9.1SB2	8.81	9.26					
ZMC9.1SB3	9.12	9.58					
ZMC10SB	9.42	10.58	5	30	5	2	7
ZMC10SB1	9.42	9.90					
ZMC10SB2	9.74	10.24					
ZMC10SB3	10.08	10.58					
ZMC11SB	10.40	11.60	5	30	5	2	8
ZMC11SB1	10.40	10.92					
ZMC11SB2	10.72	11.26					
ZMC11SB3	11.06	11.60					
ZMC12SB	11.38	12.64	5	35	5	2	9
ZMC12SB1	11.38	11.94					
ZMC12SB2	11.69	12.28					
ZMC12SB3	12.04	12.64					
ZMC13SB	12.43	14.00	5	35	5	2	10
ZMC15SB	13.80	15.56	5	40	5	2	11
ZMC16SB	15.31	17.14	5	40	5	2	12
ZMC18SB	16.89	19.08	5	45	5	2	13
ZMC20SB	18.80	21.14	5	50	5	2	15
ZMC22SB	20.81	23.25	5	55	5	2	17
ZMC24SB	22.86	25.66	5	60	5	2	19
ZMC27SB	25.10	28.90	2	70	2	2	21
ZMC30SB	28.00	32.00	2	80	2	2	23
ZMC33SB	31.00	35.00	2	80	2	2	25
ZMC36SB	34.00	38.00	2	90	2	2	27
ZMC39SB	37.00	41.00	2	100	2	2	30
ZMC43SB	40.00	45.00	2	130	2	2	33
ZMC47SB	44.00	49.00	2	150	2	2	36
ZMC51SB	48.00	54.00	2	180	2	1	39

Note 1. V_Z is tested with pulse (20ms).

2. Z_Z is measured at I_Z by given a very small A.C. Current Signal.



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116

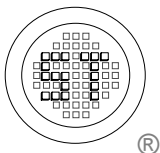
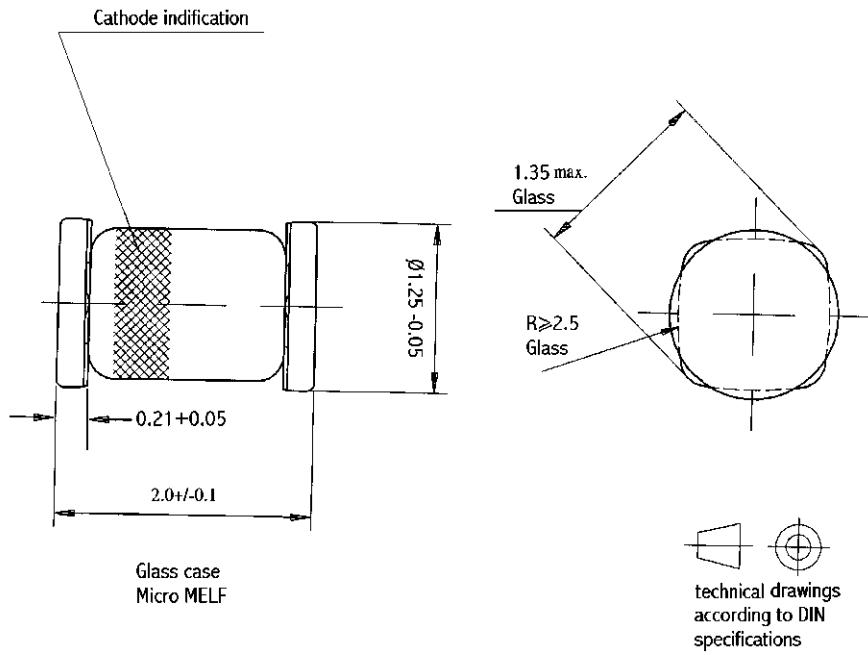


ISO 9001 : 2000
Certificate No. 550-1559-04-002-04

Dated : 22/01/2005

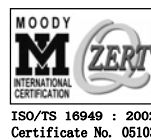
ZMC ... SB Series

Dimensions in mm



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Dated : 22/01/2005