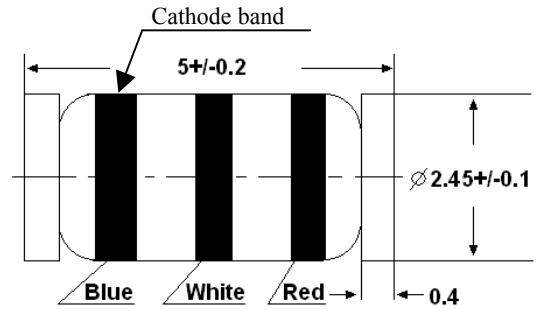


ZM1.5C...

SILICON PLANAR ZENER DIODES

LL-41



Glass case MELF
Dimensions in mm

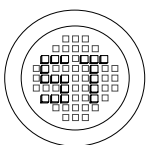
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

	Symbol	Value	Unit
Power Dissipation	P_{tot}	1.5 ¹⁾	W
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_s	-65 to +175	$^\circ\text{C}$

¹⁾ Valid provided that electrodes are kept at ambient temperature.

Characteristics at $T_j = 25^\circ\text{C}$

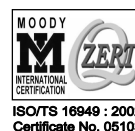
	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 200\text{mA}$	V_F	-	-	1.2	V



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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 14001:2004 Certificate No. 7116

ISO 9001:2000 Certificate No. 0506098

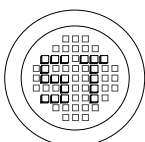
Dated : 10/05/2005

ZM1.5C...

Characteristics at $T_j = 25^\circ\text{C}$

Type	Nominal Zener Voltage V	Zener Voltage Range		Dynamic Resistance			Reverse Leakage Current (I_R at V_R)		Maximum DC Zener Current mA
		V	I_{ZT} (mA)	Ohm at I_{ZT}	Ohm at I_{ZK}	I_{ZT} (mA)	I_R (uA)	V_R (V)	
ZM 1.5C 3V3	3.3	3.1...3.5	113.6	10	500	1	100	1	454
ZM 1.5C 3V6	3.6	3.4...3.8	104.2	9	500	1	75	1	416
ZM 1.5C 3V9	3.9	3.7...4.1	96.1	7.5	500	1	25	1	384
ZM 1.5C 4V3	4.3	4.0...4.6	87.2	6	500	1	5	1	348
ZM 1.5C 4V7	4.7	4.4...5.0	79.8	5	500	1	5	1.5	319
ZM 1.5C 5V1	5.1	4.8...5.4	73.5	4	350	1	5	2	294
ZM 1.5C 5V6	5.6	5.2...6.0	66.9	2	250	1	5	3	267
ZM 1.5C 6V2	6.2	5.8...6.6	60.5	2	200	1	5	4	241
ZM 1.5C 6V8	6.8	6.4...7.2	55.1	2.5	200	1	5	5.2	220
ZM 1.5C 7V5	7.5	7.0...7.9	50	3	400	0.5	5	6.8	200
ZM 1.5C 8V2	8.2	7.7...8.7	45.7	3.5	400	0.5	5	6.5	182
ZM 1.5C 9V1	9.1	8.5...9.6	41.2	4	500	0.5	5	7	164
ZM 1.5C 10	10	9.4...10.6	37.5	4.5	500	0.25	5	8	150
ZM 1.5C 11	11	10.4...11.6	34.1	5.5	550	0.25	1	8.4	136
ZM 1.5C 12	12	11.4...12.7	31.2	6.5	550	0.25	1	9.1	125
ZM 1.5C 13	13	12.4...14.1	28.8	7	550	0.25	1	9.9	115
ZM 1.5C 15	15	13.8...15.6	25	9	550	0.25	1	11.4	100
ZM 1.5C 16	16	15.3...17.1	23.4	10	600	0.25	1	12.2	93
ZM 1.5C 18	18	16.8...19.1	20.8	12	600	0.25	1	13.7	83
ZM 1.5C 20	20	18.8...21.2	18.7	14	650	0.25	1	15.2	75
ZM 1.5C 22	22	20.8...23.3	17	17.5	650	0.25	1	16.7	68
ZM 1.5C 24	24	22.8...25.6	15.6	19	700	0.25	1	18.2	62
ZM 1.5C 27	27	25.1...28.9	13.9	23	700	0.25	1	20.6	55
ZM 1.5C 30	30	28...32	12.5	26	750	0.25	1	22.8	50
ZM 1.5C 33	33	31...35	11.4	33	800	0.25	1	25.1	45
ZM 1.5C 36	36	34...38	10.4	38	850	0.25	1	27.4	41
ZM 1.5C 39	39	37...41	9.6	45	900	0.25	1	29.7	38
ZM 1.5C 43	43	40...46	8.7	53	950	0.25	1	32.7	34
ZM 1.5C 47	47	44...50	8	67	1000	0.25	1	35.8	31
ZM 1.5C 51	51	48...54	7.3	70	1100	0.25	1	38.8	29
ZM 1.5C 56	56	52...60	6.7	86	1300	0.25	1	42.6	26
ZM 1.5C 62	62	58...66	6	100	1500	0.25	1	74.1	24
ZM 1.5C 68	68	64...72	5.5	120	1700	0.25	1	51.7	22
ZM 1.5C 75	75	70...79	5	140	2000	0.25	1	56	20
ZM 1.5C 82	82	77...87	4.6	160	2500	0.25	1	62.2	18
ZM 1.5C 91	91	85...96	4.1	200	3000	0.25	1	69.2	16
ZM 1.5C 100	100	94...106	3.7	250	3100	0.25	1	76	15
ZM 1.5C 110	110	104...116	3.4	300	4000	0.25	1	83.6	13
ZM 1.5C 120	120	114...127	2.1	380	4500	0.25	1	91.2	12
ZM 1.5C 130	130	124...141	2.9	450	5000	0.25	1	98.8	11
ZM 1.5C 150	150	138...156	2.5	600	6000	0.25	1	114	10
ZM 1.5C 160	160	153...171	2.3	700	6500	0.25	1	121.6	9
ZM 1.5C 180	180	168...191	2.1	900	7000	0.25	1	136.8	8
ZM 1.5C 200	200	188...212	1.9	1200	8000	0.25	1	152	7

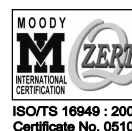
1) Tested with pulse $t_p = 20$ ms.



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