FUKUCOM COMPANY LTD.
福 靈 有 限 公 司
FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.
TEL: 852-2790 0314 FAX: 852-2790 0206

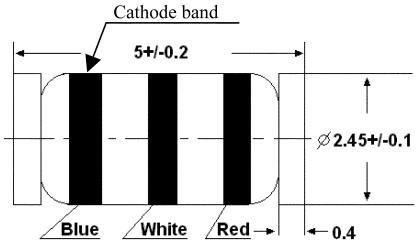
ZM2C ...

SILICON PLANAR POWER ZENER DIODES

For use in stabilizing and clipping circuits with high power rating. The Zener voltages are graded according to the international E 24 standard. Other voltage tolerances and higher Zener voltages are upon request.

These diodes are delivered taped. Details see “Taping”

LL-41



Glass case MELF
Dimensions in mm

Absolute Maximum Ratings

	Symbol	Value	Unit
Power Dissipation	P_{tot}	2[1)]	W
Junction Temperature	T_j	175	^{O}C
Storage Temperature Range	T_S	-65 to +175	^{O}C
[1)] Valid provided that leads are at a distance of 8 mm from case are kept at ambient temperature.			

Characteristics at T_{amb} = 25°C

	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at I_F = 200mA	V_F	-	-	1.2	V

SEMTECH

Dated : 10/05/2005

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Characteristics at T_j = 25°C

TYPE	Nominal Zener Voltage	Zener Voltage Range		Dynamic Resistance			Reverse Leakage Current (I_R at V_R)		Maximum DC Zener Current
	V	V	I_{ZT} (mA)	Ohm at I_{ZT}	Ohm at I_{ZK}	I_{ZK} (mA)	I_R (uA)	V_R (V)	mA
ZM2C 3.6	3.6	3.4...3.8	139	5	400	1	80	1	504
ZM2C 3.9	3.9	3.7...4.1	128	5	400	1	30	1	468
ZM2C 4.3	4.3	4.0...4.6	116	4.5	400	1	20	1	434
ZM2C 4.7	4.7	4.4...5.0	106	4.5	550	1	5	1	386
ZM2C 5.1	5.1	4.8...5.4	98	3.5	600	1	5	1	356
ZM2C 5.6	5.6	5.2...6.0	89.5	2.5	650	1	5	2	324
ZM2C 6.2	6.2	5.8...6.6	80.5	1.5	700	1	5	3	292
ZM2C 6.8	6.8	6.4...7.2	73.5	2	700	1	5	4	266
ZM2C 7.5	7.5	7.0...7.9	66.5	2	700	0.5	5	5	242
ZM2C 8.2	8.2	7.7...8.7	61	2.3	700	0.5	5	6	220
ZM2C 9.1	9.1	8.5...9.6	55	2.5	700	0.5	2	7	200
ZM2C 10	10	9.4...10.6	50	3.5	700	0.25	3	7.6	182
ZM2C 11	11	10.4...11.6	45.5	4	700	0.25	1	8.4	166
ZM2C 12	12	11.4...12.7	41.5	4.5	700	0.25	1	9.1	152
ZM2C 13	13	12.4...14.1	38.5	5	700	0.25	0.5	9.9	138
ZM2C 15	15	13.8...15.6	33.4	7	700	0.25	0.5	11.4	122
ZM2C 16	16	15.3...17.1	31.2	8	700	0.25	0.3	12.2	114
ZM2C 18	18	16.8...19.1	27.8	10	750	0.25	0.5	13.7	100
ZM2C 20	20	18.8...21.2	25	11	750	0.25	0.5	15.2	90
ZM2C 22	22	20.8...23.3	22.8	12	750	0.25	0.5	16.7	82
ZM2C 24	24	22.8...25.6	20.8	13	750	0.25	0.5	18.2	76
ZM2C 27	27	25.1...28.9	18.5	18	750	0.25	0.5	20.6	68
ZM2C 30	30	28...32	16.6	20	1000	0.25	0.5	22.5	60
ZM2C 33	33	31...35	15.1	23	1000	0.25	0.5	25.1	55
ZM2C 36	36	34...38	13.9	25	1000	0.25	0.5	27.4	50
ZM2C 39	39	37...41	12.8	30	1000	0.25	0.5	29.7	47
ZM2C 43	43	40...46	11.6	35	1500	0.25	0.5	32.7	43
ZM2C 47	47	44...50	10.6	40	1500	0.25	0.5	35.8	39
ZM2C 51	51	48...54	9.8	48	1500	0.25	0.5	38.8	36
ZM2C 56	56	52...60	9	55	2000	0.25	0.5	42.6	32
ZM2C 62	62	58...66	8.1	60	2000	0.25	0.5	47.1	29
ZM2C 68	68	64...72	7.4	75	2000	0.25	0.5	51.7	27
ZM2C 75	75	70...79	6.7	90	2000	0.25	0.5	56	24
ZM2C 82	82	77...87	6.1	100	3000	0.25	0.5	62.2	22
ZM2C 91	91	85...96	5.5	125	3000	0.25	0.5	69.2	20
ZM2C 100	100	94...106	5	175	3000	0.25	0.5	76	18
ZM2C 110	110	104...116	4.5	250	4000	0.25	0.5	83.6	17
ZM2C 120	120	114...127	4.2	325	4500	0.25	0.5	91.2	15
ZM2C 130	130	124...141	3.8	400	5000	0.25	0.5	98.8	14
ZM2C 150	150	138...156	3.3	575	6000	0.25	0.5	114	12
ZM2C 160	160	153...171	3.1	650	6500	0.25	0.5	121.6	11
ZM2C 180	180	168...191	2.8	725	7000	0.25	0.5	136.8	10
ZM2C 200	200	188...212	2.5	900	8000	0.25	0.5	152	9

1) Tested with pulses tp = 20 ms.
2) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

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