

ZM2CxxxPF

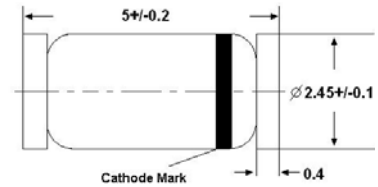
Silicon Planar Power Zener Diodes

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.

Features

- Lead Free

LL-41



Glass case MELF
Dimensions in mm

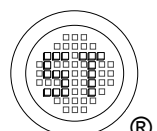
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation ¹⁾	P_{tot}	2	W
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 175	$^\circ\text{C}$

Thermal Characteristics

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient ¹⁾	$R_{\theta\text{JA}}$	75	$^\circ\text{C/W}$

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



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Characteristics at $T_a = 25^\circ\text{C}$ (V_F max : 1.2 V at $I_F = 200$ mA)

Type	Zener Voltage ¹⁾			Dynamic Resistance			Reverse Current		Maximum DC Zener Current ²⁾
	V_{Znom}	V_{ZT}	at I_{ZT}	Z_{ZT}	Z_{ZK}	at I_{ZK}	I_R	at V_R	I_{ZM} (mA)
	(V)	(V)	(mA)	Max. (Ω)	Max. (Ω)	(mA)	Max. (μA)	(V)	
ZM2C3V6PF	3.6	3.4...3.8	139	5	400	1	80	1	504
ZM2C3V9PF	3.9	3.7...4.1	128	5	400	1	30	1	468
ZM2C4V3PF	4.3	4...4.6	116	4.5	400	1	20	1	434
ZM2C4V7PF	4.7	4.4...5	106	4.5	550	1	5	1	386
ZM2C5V1PF	5.1	4.8...5.4	98	3.5	600	1	5	1	356
ZM2C5V6PF	5.6	5.2...6	89.5	2.5	650	1	5	2	324
ZM2C6V2PF	6.2	5.8...6.6	80.5	1.5	700	1	5	3	292
ZM2C6V8PF	6.8	6.4...7.2	73.5	2	700	1	5	4	266
ZM2C7V5PF	7.5	7...7.9	66.5	2	700	0.5	5	5	242
ZM2C8V2PF	8.2	7.7...8.7	61	2.3	700	0.5	5	6	220
ZM2C9V1PF	9.1	8.5...9.6	55	2.5	700	0.5	2	7	200
ZM2C10PF	10	9.4...10.6	50	3.5	700	0.25	3	7.6	182
ZM2C11PF	11	10.4...11.6	45.5	4	700	0.25	1	8.4	166
ZM2C12PF	12	11.4...12.7	41.5	4.5	700	0.25	1	9.1	152
ZM2C13PF	13	12.4...14.1	38.5	5	700	0.25	0.5	9.9	138
ZM2C15PF	15	13.8...15.6	33.4	7	700	0.25	0.5	11.4	122
ZM2C16PF	16	15.3...17.1	31.2	8	700	0.25	0.3	12.2	114
ZM2C18PF	18	16.8...19.1	27.8	10	750	0.25	0.5	13.7	100
ZM2C20PF	20	18.8...21.2	25	11	750	0.25	0.5	15.2	90
ZM2C22PF	22	20.8...23.3	22.8	12	750	0.25	0.5	16.7	82
ZM2C24PF	24	22.8...25.6	20.8	13	750	0.25	0.5	18.2	76
ZM2C27PF	27	25.1...28.9	18.5	18	750	0.25	0.5	20.6	68
ZM2C30PF	30	28...32	16.6	20	1000	0.25	0.5	22.5	60
ZM2C33PF	33	31...35	15.1	23	1000	0.25	0.5	25.1	55
ZM2C36PF	36	34...38	13.9	25	1000	0.25	0.5	27.4	50
ZM2C39PF	39	37...41	12.8	30	1000	0.25	0.5	29.7	47
ZM2C43PF	43	40...46	11.6	35	1500	0.25	0.5	32.7	43
ZM2C47PF	47	44...50	10.6	40	1500	0.25	0.5	35.8	39
ZM2C51PF	51	48...54	9.8	48	1500	0.25	0.5	38.8	36
ZM2C56PF	56	52...60	9	55	2000	0.25	0.5	42.6	32
ZM2C62PF	62	58...66	8.1	60	2000	0.25	0.5	47.1	29
ZM2C68PF	68	64...72	7.4	75	2000	0.25	0.5	51.7	27
ZM2C75PF	75	70...79	6.7	90	2000	0.25	0.5	56	24

¹⁾ Tested with pulses $t_p = 20$ ms.

²⁾ Valid provided that electrodes are kept at ambient temperature.

