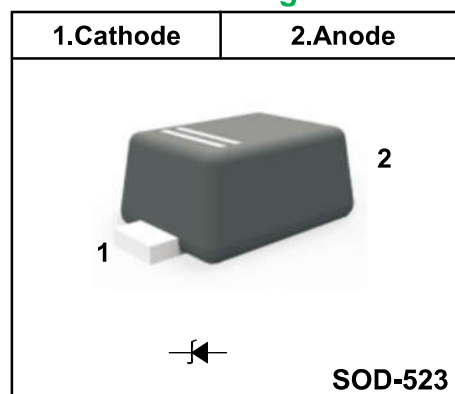


SILICON PLANAR ZENER DIODES

Features

- ◆Power Dissipation: 200 mW
- ◆Zener Voltage Tolerance: $\pm 2\%$

Pinning



Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Value	Unit
Total Device Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{Stg}	- 55 to + 150	°C

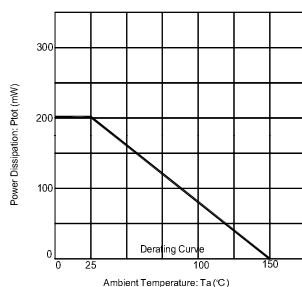
Characteristics at Ta = 25°C

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	635	°C/W
Forward Voltage at $I_F = 10 \text{ mA}$	V_F	0.9	V

MM5Z2B4~MM5ZB75

Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Impedance		Reverse Leakage Current	
		V _{znom} V	I _{zT} mA	for V _{ZT} V	Z _{ZT} (Max.) Ω	at I _z mA	I _R (Max.) iA	at V _R V
MM5Z2B4	XY	2.4	5	2.352...2.448	100	5	120	1
MM5Z2B7	XZ	2.7	5	2.646...2.754	110	5	120	1
MM5Z3B0	FR	3.0	5	2.94...3.06	120	5	50	1
MM5Z3B3	FX	3.3	5	3.234...3.366	130	5	20	1
MM5Z3B6	FY	3.6	5	3.528...3.672	130	5	10	1
MM5Z3B9	FZ	3.9	5	3.822...3.978	130	5	5	1
MM5Z4B3	HA	4.3	5	4.214...4.386	130	5	5	1
MM5Z4B7	HB	4.7	5	4.606...4.794	130	5	2	1
MM5Z5B1	HC	5.1	5	4.998...5.202	130	5	2	1.5
MM5Z5B6	HD	5.6	5	5.488...5.712	80	5	1	2.5
MM5Z6B2	HE	6.2	5	6.076...6.324	50	5	1	3
MM5Z6B8	HF	6.8	5	6.664...6.936	30	5	0.5	3.5
MM5Z7B5	HH	7.5	5	7.35...7.65	30	5	0.5	4
MM5Z8B2	HJ	8.2	5	8.036...8.364	30	5	0.5	5
MM5Z9B1	HK	9.1	5	8.918...9.282	30	5	0.5	6
MM5ZB10	HM	10	5	9.8...10.2	30	5	0.1	7
MM5ZB11	HN	11	5	10.78...11.22	30	5	0.1	8
MM5ZB12	HP	12	5	11.76...12.24	35	5	0.1	9
MM5ZB13	HR	13	5	12.74...13.26	35	5	0.1	10
MM5ZB15	HX	15	5	14.7...15.3	40	5	0.1	11
MM5ZB16	HY	16	5	15.68...16.32	40	5	0.1	12
MM5ZB18	HZ	18	5	17.64...18.36	45	5	0.1	13
MM5ZB20	JA	20	5	19.6...20.4	50	5	0.1	15
MM5ZB22	JB	22	5	21.56...22.44	55	5	0.1	17
MM5ZB24	JC	24	5	23.52...24.48	60	5	0.1	19
MM5ZB27	JD	27	5	26.46...27.54	70	2	0.1	21
MM5ZB30	JE	30	5	29.4...30.6	80	2	0.1	23
MM5ZB33	JF	33	5	32.34...33.66	80	2	0.1	25
MM5ZB36	JH	36	5	35.28...36.72	90	2	0.1	27
MM5ZB39	JJ	39	2.5	38.22...39.78	100	2	2	30
MM5ZB43	JK	43	2.5	42.14...43.86	130	2	2	33
MM5ZB47	JM	47	2.5	46.06...47.94	150	2	2	36
MM5ZB51	YA	51	2.5	49.98...52.02	180	2	1	39
MM5ZB56	YB	56	2.5	54.88...57.12	180	2	1	43
MM5ZB62	YC	62	2.5	60.76...63.24	200	2	0.2	47
MM5ZB68	YD	68	2.5	66.64...69.36	250	2	0.2	52
MM5ZB75	YE	75	2.5	73.5...76.5	300	2	0.2	57

1) Tested with pulses tp = 20 ms.



Ordering information

Package	Packing Description	Packing Quantity
SOD-523	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-523

Top view of the component. Dimension A is the height. HE is the total width. C is the thickness of the base. A note indicates 'ALL ROUND' for the corners.

Side view of the component. Dimension A is the height. E is the width of the main body. P is the radius of the top edge.

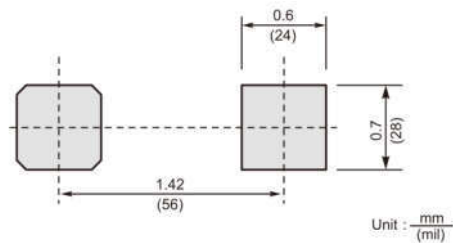
Bottom view of the component. Dimension D is the width of the main body. E is the height of the main body. e is the height of the base. L is the width of the base.

Bottom view of the component. Dimension N is the width of the base. L is the width of the base.

底视图
bottom view

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.51	0.77	20	30
e	0.25	0.35	10	14
C	0.08	0.15	3	6
D	1.10	1.30	43	51
E	0.75	0.99	30	39
HE	1.50	1.70	59	67
N	0.35ref		14ref	
L	0.2ref		8ref	
P	R0.1 ALL ROUND		R4.0 ALL ROUND	
∠	10°			

The recommended mounting pad size



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