



MM5Z2V2B THRU MM5Z39B

Silicon planar zener diodes

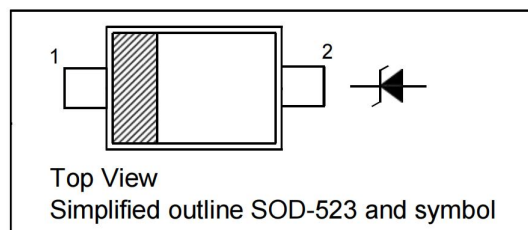
Features

- Total power dissipation: max. 200 mW
- Small plastic package suitable for surface mounted design
- High reliability

Description

Silicon planar zener diode in a small plastic SMD SOD-523 package

PIN	DESCRIPTION
1	Cathode
2	Anode



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

Parameter	Symbol	Limit	Unit
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~150	$^\circ\text{C}$

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

Parameter	Symbol	Limit	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	635	$^\circ\text{C}/\text{W}$
Forward Voltage @ $I_F = 10 \text{ mA}$	V_F	0.9	V

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

Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Impedance ²⁾		Reverse Leakage Current	
		$V_{Z\text{NOM}}$	I_{ZT}	for V_{ZT}	$Z_{ZT}(\text{max.})$	at I_{ZT}	$I_R (\text{Max.})$	at V_R
		V	mA	V	Ω	mA	μA	V
MM5Z2V2B	RM	2.2	5	2.1...2.4	100	5	120	0.7
MM5Z2V4B	RN	2.4	5	2.3...2.65	100	5	120	1
MM5Z2V7B	RP	2.7	5	2.65...2.95	110	5	120	1
MM5Z3V0B	RR	3.0	5	2.95...3.25	120	5	50	1
MM5Z3V3B	EX	3.3	5	3.25...3.55	120	5	20	1
MM5Z3V6B	RY	3.6	5	3.6...3.845	100	5	10	1
MM5Z3V9B	JY	3.9	5	3.89...4.16	100	5	5	1



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MM5Z4V3B	JZ	4.3	5	4.17...4.43	100	5	5	1
MM5Z4V7B	KA	4.7	5	4.55...4.75	100	5	2	1
MM5Z5V1B	KB	5.1	5	4.98...5.2	80	5	2	1.5
MM5Z5V6B	KC	5.6	5	5.49...5.73	60	5	1	2.5
MM5Z6V2B	KD	6.2	5	6.06...6.33	60	5	1	3
MM5Z6V8B	KE	6.8	5	6.65...6.93	40	5	0.5	3.5
MM5Z7V5B	KF	7.5	5	7.28...7.6	30	5	0.5	4
MM5Z8V2B	KH	8.2	5	8.02...8.36	30	5	0.5	5
MM5Z9V1B	KJ	9.1	5	8.85...9.23	30	5	0.5	6
MM5Z10B	KK	10	5	9.8...10.2	30	5	0.1	7
MM5Z11B	KM	11	5	10.78...11.22	30	5	0.1	8
MM5Z12B	KN	12	5	11.76...12.24	30	5	0.1	9
MM5Z13B	KP	13	5	12.74...13.26	37	5	0.1	10
MM5Z15B	KR	15	5	14.7...15.3	42	5	0.1	11
MM5Z16B	KX	16	5	15.68...16.32	50	5	0.1	12
MM5Z18B	KY	18	5	17.64...18.36	65	5	0.1	13
MM5Z20B	KZ	20	5	19.6...20.4	85	5	0.1	15
MM5Z22B	RZ	22	5	21.56...22.44	100	5	0.1	17
MM5Z24B	XA	24	5	23.52...24.48	120	5	0.1	19
MM5Z27B	XB	27	5	26.46...27.54	150	5	0.1	21
MM5Z30B	XC	30	5	29.4...30.6	200	5	0.1	23
MM5Z33B	XD	33	5	32.34...33.66	250	5	0.1	25
MM5Z36B	XE	36	5	35.28...36.72	300	5	0.1	27
MM5Z39B	XF	39	5	38.22...39.78	100	5	2	30

1) VZ is tested with pulses (20ms).

2) Z_{ZT} is measured at I_Z by given a very small A.C. current signal.

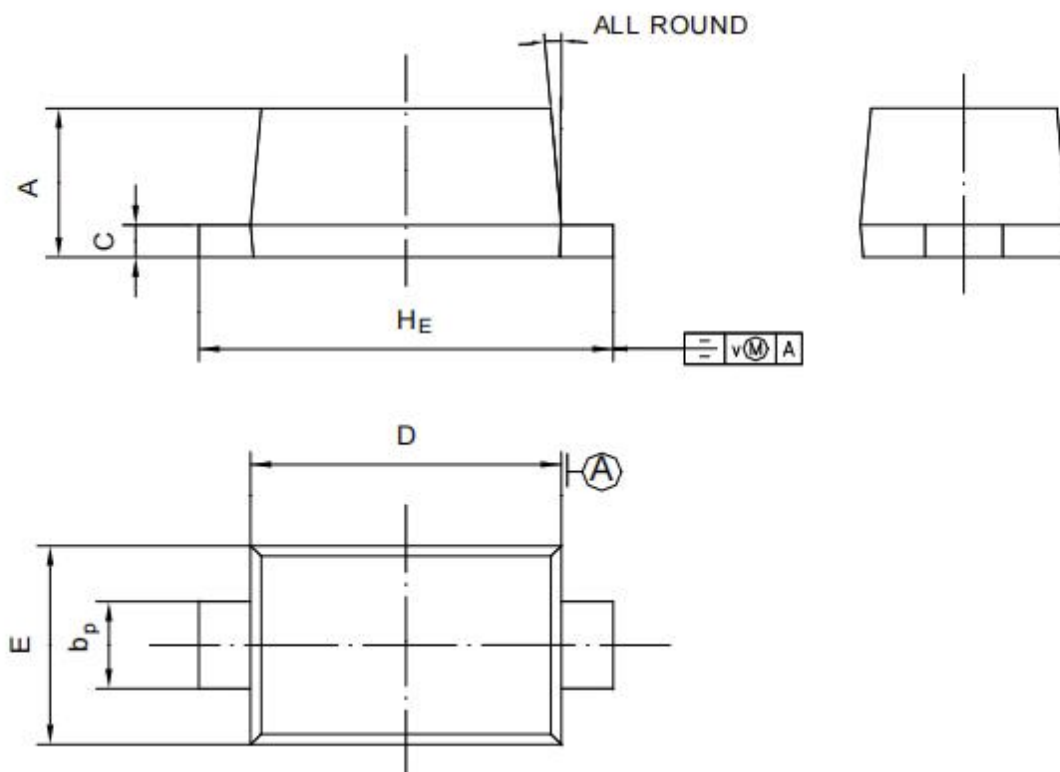


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Package Information

SOD-523

Dimensions in mm



UNIT	A	b _p	C	D	E	H _E	V	
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°