

MM3Z2B4~MM3ZB39 ($\pm 2\%$)

SILICON PLANAR ZENER DIODES

FEATURES

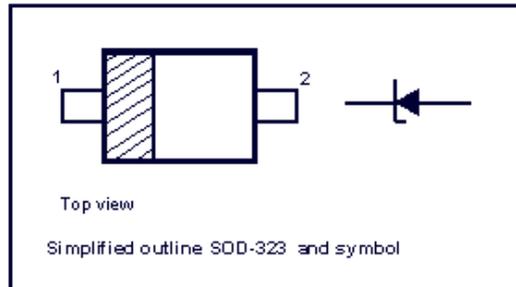
- Total power dissipation: max. 200 mW
- Small plastic package suitable for surface mounted design

DESCRIPTION

Silicon planar zener diode in a small plastic SMD SOD-323 package

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

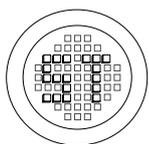


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +175	$^\circ\text{C}$

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

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	0.3	K/mW
Forward Voltage at $I_F = 10\text{mA}$	V_F	-	-	0.9	V



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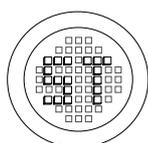
ISO 14001 Certificate No. 7116
Dated : 13/05/2005

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Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Impedance ²⁾		Reverse Leakage Current		Temp. coefficient of Zener Voltage
		V _{znom} V	I _{ZT} mA	for V _{ZT} V	Z _Z (Max) Ω	at I _Z mA	I _R (Max) μ A	at V _R V	TKvz %/K
MM3Z 2B4	DN	2.4	5	2.35...2.45	100	5	120	1.0	-0.09...-0.06
MM3Z 2B7	DP	2.7	5	2.64...2.76	110	5	120	1.0	-0.09...-0.06
MM3Z 3B0	DR	3.0	5	2.94...3.06	120	5	50	1.0	-0.08...-0.05
MM3Z 3B3	DX	3.3	5	3.23...3.37	130	5	20	1.0	-0.08...-0.05
MM3Z 3B6	DY	3.6	5	3.52...3.68	130	5	10	1.0	-0.08...-0.05
MM3Z 3B9	DZ	3.9	5	3.82...3.98	130	5	5	1.0	-0.08...-0.05
MM3Z 4B3	EA	4.3	5	4.21...4.39	130	5	5	1.0	-0.06...-0.03
MM3Z 4B7	EB	4.7	5	4.60...4.80	130	5	2	1.0	-0.05...+0.02
MM3Z 5B1	EC	5.1	5	4.99...5.21	130	5	2	1.5	-0.02...+0.02
MM3Z 5B6	ED	5.6	5	5.48...5.72	80	5	1	2.5	-0.05...+0.05
MM3Z 6B2	EE	6.2	5	6.07...6.33	50	5	1	3.0	0.03...0.06
MM3Z 6B8	EF	6.8	5	6.66...6.94	30	5	0.5	3.5	0.03...0.07
MM3Z 7B5	EH	7.5	5	7.35...7.65	30	5	0.5	4.0	0.03...0.07
MM3Z 8B2	EJ	8.2	5	8.03...8.37	30	5	0.5	5.0	0.03...0.08
MM3Z 9B1	EK	9.1	5	8.91...9.29	30	5	0.5	6.0	0.03...0.09
MM3Z B10	EM	10	5	9.8...10.2	30	5	0.1	7.0	0.03...0.1
MM3Z B11	EN	11	5	10.78...11.22	30	5	0.1	8.0	0.03...0.11
MM3Z B12	EP	12	5	11.76...12.24	35	5	0.1	9.0	0.03...0.11
MM3Z B13	ER	13	5	12.74...13.26	35	5	0.1	10	0.03...0.11
MM3Z B15	EX	15	5	14.7...15.3	40	5	0.1	11	0.03...0.11
MM3Z B16	EY	16	5	15.68...16.32	40	5	0.1	12	0.03...0.11
MM3Z B18	EZ	18	5	17.64...18.36	45	5	0.1	13	0.03...0.11
MM3Z B20	FA	20	5	19.6...20.4	50	5	0.1	15	0.03...0.11
MM3Z B22	FB	22	5	21.56...22.44	55	5	0.1	17	0.04...0.12
MM3Z B24	FC	24	5	23.52...24.48	60	5	0.1	19	0.04...0.12
MM3Z B27	FD	27	5	26.46...27.54	70	2	0.1	21	0.04...0.12
MM3Z B30	FE	30	5	29.4...30.6	80	2	0.1	23	0.04...0.12
MM3Z B33	FF	33	5	32.34...33.66	80	2	0.1	25	0.04...0.12
MM3Z B36	FH	36	5	35.28...36.72	90	2	0.1	27	0.04...0.12
MM3Z B39	FJ	39	5	38.22...39.78	100	2	2	30	0.04...0.12

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

2) Z_Z is measured at I_Z by given a very small A.C. current signal.



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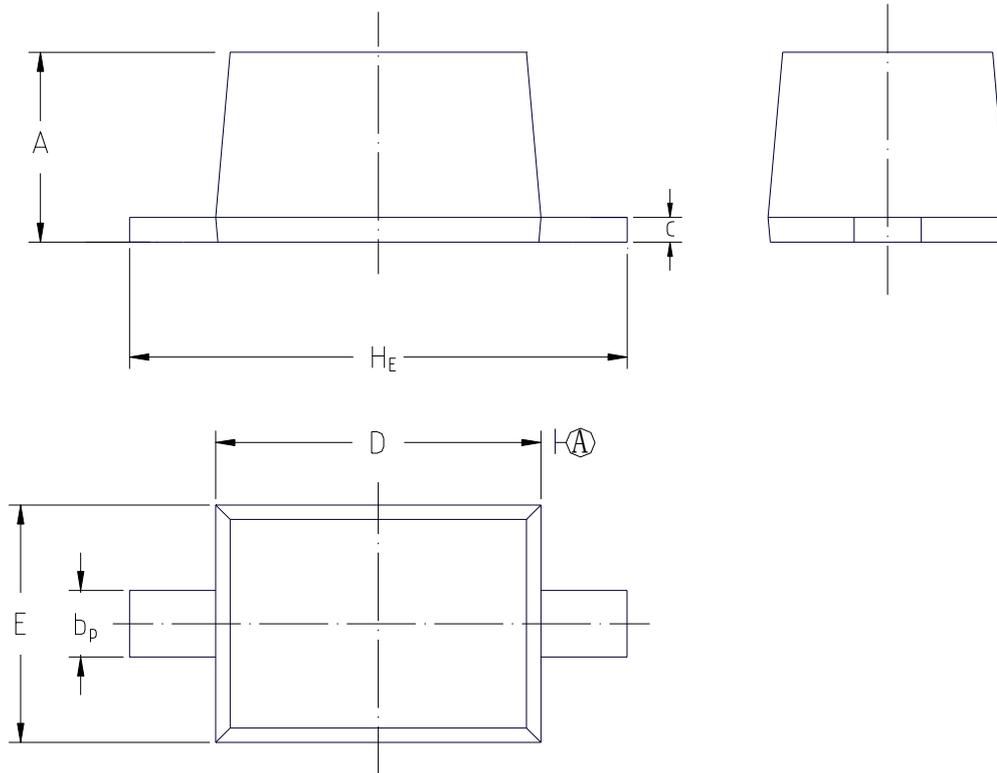
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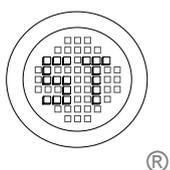
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	b_p	c	D	E	H_E
mm	1.10 0.80	0.40 0.25	0.15 0.00	1.80 1.60	1.35 1.15	2.80 2.30



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