

MM3Z2B4~MM3ZB75

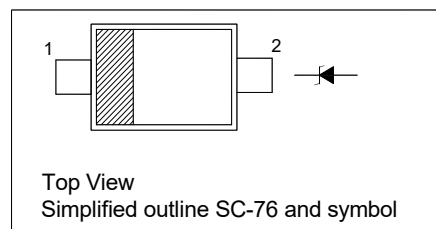
Silicon Planar Zener Diodes

Features

- Power Dissipation: 300 mW
- Zener Voltage Tolerance: $\pm 2\%$

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

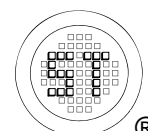


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Total Power Dissipation	P_{tot}	300	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	417	$^\circ\text{C/W}$
Forward Voltage at $I_F = 10\text{ mA}$	V_F	0.9	V

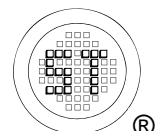


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Characteristics at $T_a = 25^\circ\text{C}$

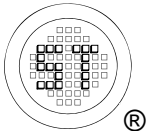
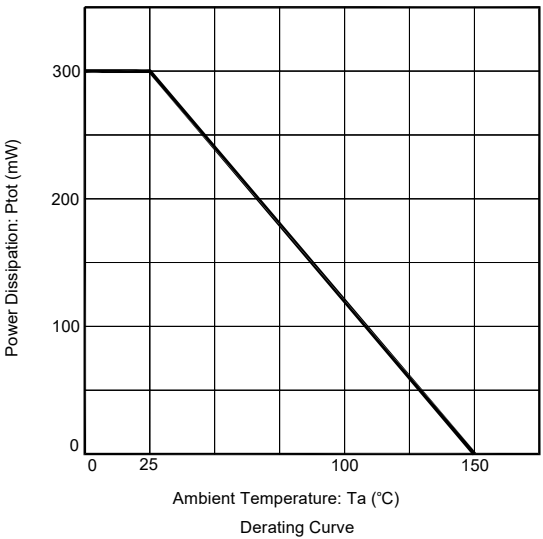
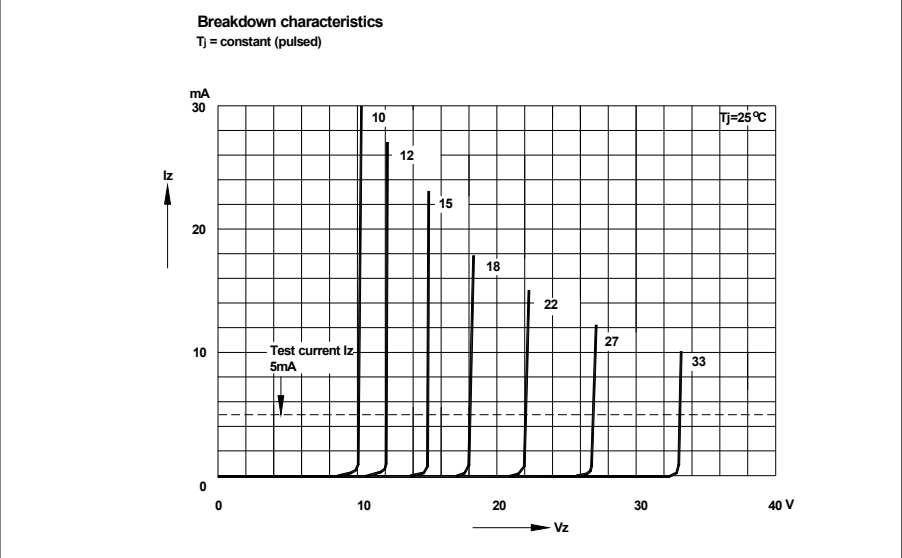
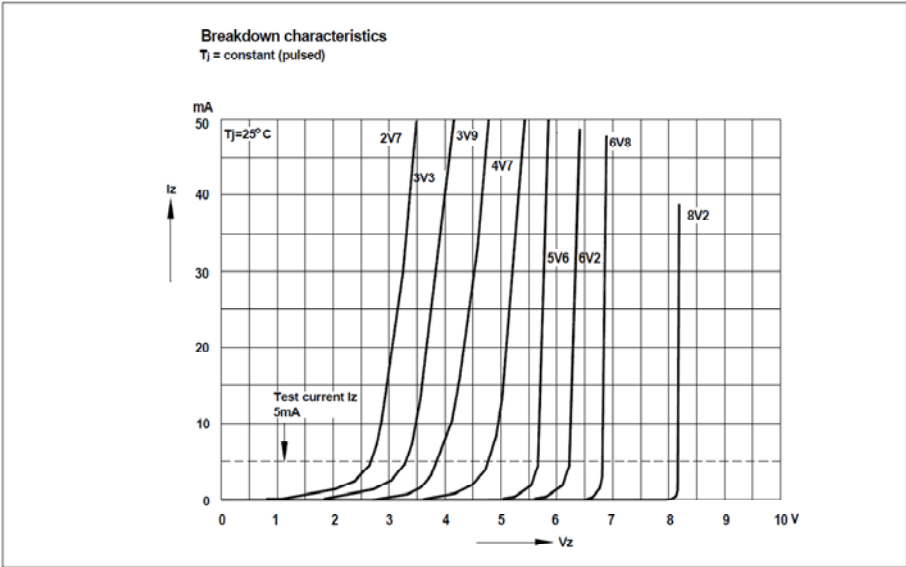
Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Impedance		Reverse Leakage Current	
		V_{Znom}	V_{ZT}	at I_{ZT}	Z_{ZT}	at I_{ZT}	I_R	at V_R
		(V)	(V)	(mA)	Max. (Ω)	(mA)	Max. (μA)	(V)
MM3Z2B4	DN	2.4	2.352...2.448	5	100	5	120	1
MM3Z2B7	DP	2.7	2.646...2.754	5	110	5	120	1
MM3Z3B0	DR	3.0	2.94...3.06	5	120	5	50	1
MM3Z3B3	DX	3.3	3.234...3.366	5	130	5	20	1
MM3Z3B6	DY	3.6	3.528...3.672	5	130	5	10	1
MM3Z3B9	DZ	3.9	3.822...3.978	5	130	5	5	1
MM3Z4B3	Z0	4.3	4.214...4.386	5	130	5	5	1
MM3Z4B7	EB	4.7	4.606...4.794	5	130	5	2	1
MM3Z5B1	EC	5.1	4.998...5.202	5	130	5	2	1.5
MM3Z5B6	ED	5.6	5.488...5.712	5	80	5	1	2.5
MM3Z6B2	EE	6.2	6.076...6.324	5	50	5	1	3
MM3Z6B8	EF	6.8	6.664...6.936	5	30	5	0.5	3.5
MM3Z7B5	EH	7.5	7.35...7.65	5	30	5	0.5	4
MM3Z8B2	EJ	8.2	8.036...8.364	5	30	5	0.5	5
MM3Z9B1	EK	9.1	8.918...9.282	5	30	5	0.5	6
MM3ZB10	EM	10	9.8...10.2	5	30	5	0.1	7
MM3ZB11	EN	11	10.78...11.22	5	30	5	0.1	8
MM3ZB12	EP	12	11.76...12.24	5	35	5	0.1	9
MM3ZB13	ER	13	12.74...13.26	5	35	5	0.1	10
MM3ZB15	EX	15	14.7...15.3	5	40	5	0.1	11
MM3ZB16	EY	16	15.68...16.32	5	40	5	0.1	12
MM3ZB18	EZ	18	17.64...18.36	5	45	5	0.1	13
MM3ZB20	FA	20	19.6...20.4	5	50	5	0.1	15
MM3ZB22	FB	22	21.56...22.44	5	55	5	0.1	17
MM3ZB24	FC	24	23.52...24.48	5	60	5	0.1	19
MM3ZB27	FD	27	26.46...27.54	2	70	2	0.1	21
MM3ZB30	FE	30	29.4...30.6	2	80	2	0.1	23
MM3ZB33	FF	33	32.34...33.66	2	80	2	0.1	25
MM3ZB36	FH	36	35.28...36.72	2	90	2	0.1	27
MM3ZB39	FJ	39	38.22...39.78	2	100	2	0.1	30
MM3ZB43	XJ	43	42.14...43.86	2	130	2	0.1	33
MM3ZB47	XK	47	46.06...47.94	2	150	2	0.1	36
MM3ZB51	XM	51	49.98...52.02	2	180	2	0.1	39
MM3ZB56	XN	56	54.88...57.12	2	200	2	0.1	43
MM3ZB62	XP	62	60.76...63.24	2	215	2	0.1	47
MM3ZB68	XR	68	66.64...69.36	2	240	2	0.1	52
MM3ZB75	XX	75	73.5...76.5	2	265	2	0.1	56

¹⁾ V_{ZT} is tested with pulses (20 ms).



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Electrical characteristic curve

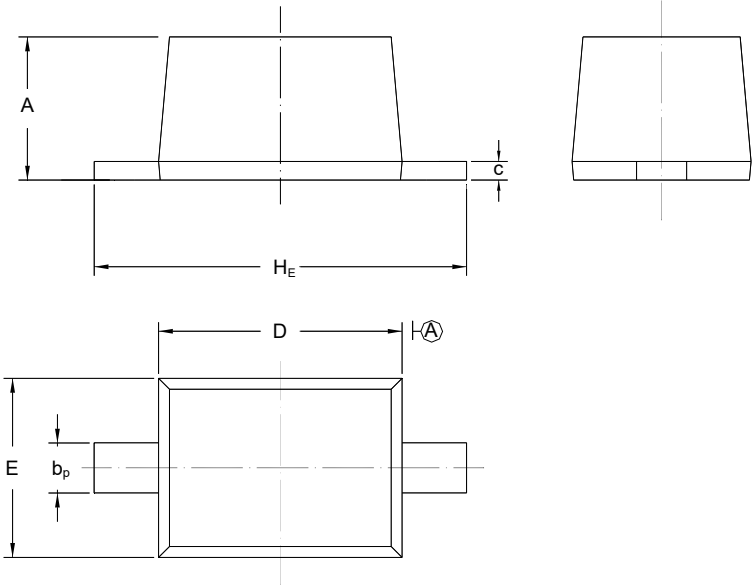


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PACKAGE OUTLINE

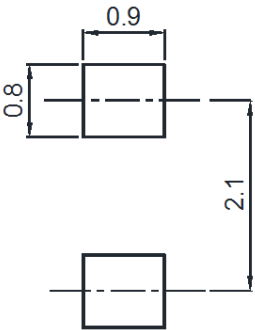
Plastic surface mounted package; 2 leads

SC-76



UNIT	A	b_p	C	D	E	H_E
mm	1.10 0.80	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SC-76	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" III " = Cathode line

" ** " = Part No.

Font type: Arial

