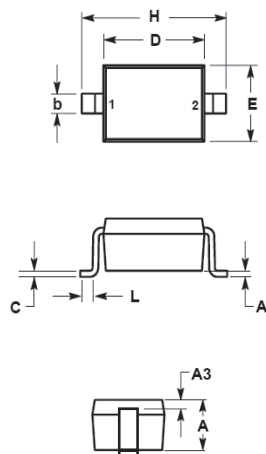


Features

- Total power dissipation: max. 300 mW
- Small plastic ackage suitable for surface mounted design
- Tolerance approximately $\pm 2\%$



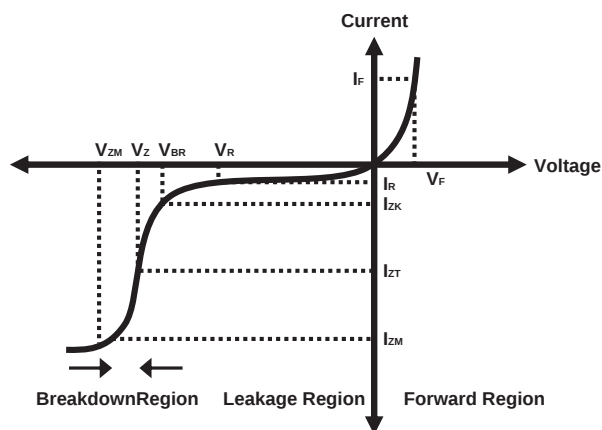
SOD-323		
Dim.	Min.	Max.
A	0.80	1.10
A1	0.00	0.10
A3	0.15 REF	
B	0.25	0.40
C	0.10	0.15
D	1.60	1.80
E	1.15	1.35
L	0.20	0.50
H	2.30	2.80
Dimensions in millimeter		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	300	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{Stg}	- 55 to + 150	$^\circ\text{C}$
Thermal Resistance Junction to Ambient Air	$R_{\theta\text{JA}}$	625	$^\circ\text{C/W}$
Forward Voltage at $I_F = 10 \text{ mA}$	V_F	0.9	V

- 1) Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm²
- 2) Short duration test pulse used to minimize self-heating effect
- 3) $f=1\text{KHz}$

Zener I vs. V Characteristics



- V_{BR} : Voltage at I_{ZK}
- I_{ZK} : Test current for voltage V_{BR}
- Z_{ZK} : Dynamic impedance at I_{ZK}
- I_{ZT} : Test current for voltage V_Z
- V_Z : Voltage at current I_{ZT}
- Z_{ZT} : Dynamic impedance at I_{ZT}
- I_{ZM} : Maximum steady state current
- V_{ZM} : Voltage at I_{ZM}



HAICHUANG SEMI

MM3Z2B4~MM3ZB75

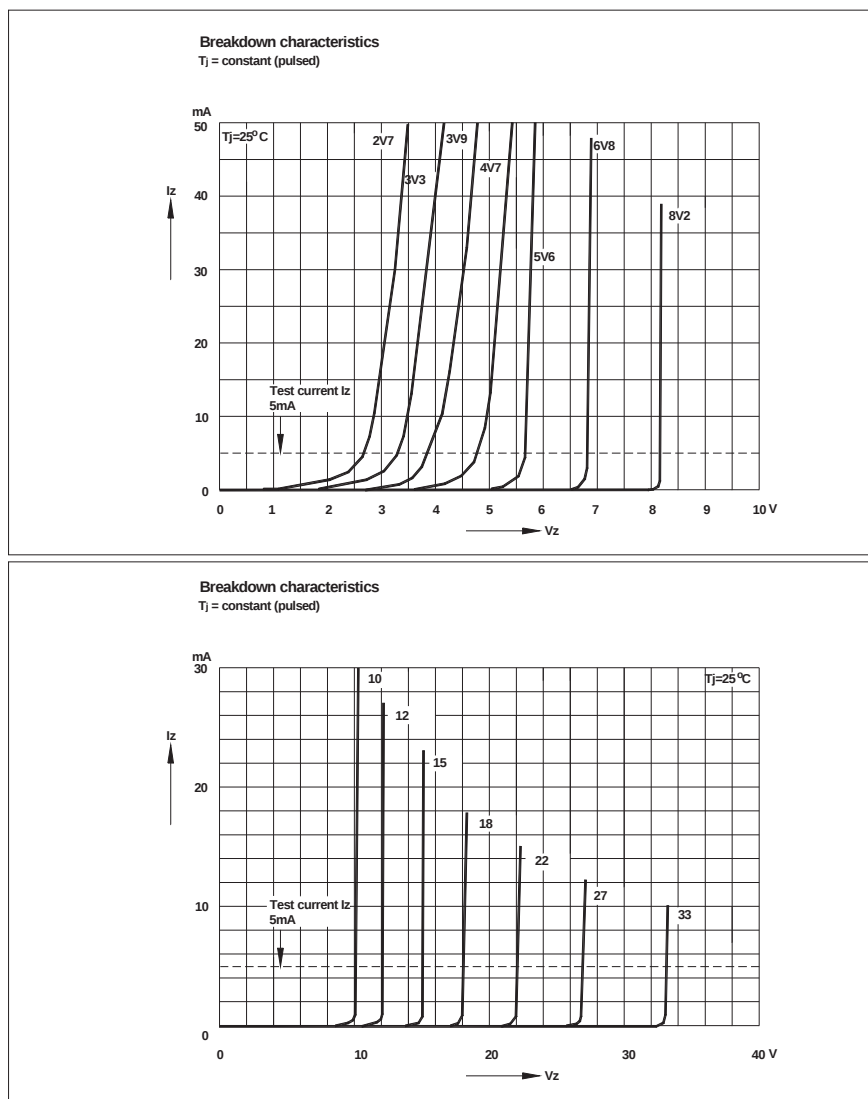
SILICON PLANAR ZENMER DIODE

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Impedance ²⁾		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	ZO	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	11.764...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	5	70	2	0.1	21
MM3ZB30	FE	30	29.4...30.6	5	80	2	0.1	23
MM3ZB33	FF	33	32.34...33.66	5	80	2	0.1	25
MM3ZB36	FH	36	35.28...36.72	5	90	2	0.1	27
MM3ZB39	FJ	39	38.22...39.78	2.5	100	2	2	30
MM3ZB43	XJ	43	42.14...43.86	2.5	130	2	2	33
MM3ZB47	XK	47	46.06...47.94	2.5	150	2	2	36
MM3ZB51	XM	51	49.98...52.02	2.5	180	2	1	39
MM3ZB56	XN	56	54.88...57.12	2.5	180	2	1	43
MM3ZB62	XP	62	60.76...63.24	2.5	200	2	0.2	47
MM3ZB68	XR	68	66.64...69.36	2.5	250	2	0.2	52
MM3ZB75	XX	75	73.5...76.5	2.5	300	2	0.2	57

¹⁾ V_Z is tested with pulses (20 ms).

TYPICAL TRANSIENT CHARACTERISTICS



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