

# ZMM...LZB Series

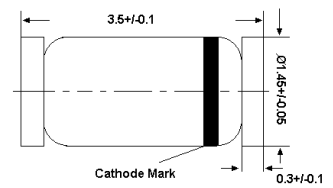
## Silicon Epitaxial Planar Zener Diodes

Constant voltage control applications

### Features

- Small surface mounting type
- High reliability

LL-34



Glass case MiniMELF  
Dimensions in mm

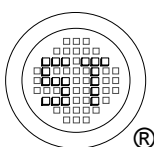
### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{\text{tot}}$	500	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{stg}}$	- 65 to + 175	$^\circ\text{C}$

### Characteristics at $T_a = 25^\circ\text{C}$ ( $V_F = 1\text{ V Max. at } I_F = 100\text{ mA}$ )

Type	Zener Voltage <sup>1)</sup>		Operating Resistance		Rising Operating Resistance		Reverse Current		
	$V_Z$		at $I_{ZT}$	$Z_{ZT}$	at $I_{ZT}$	$Z_{ZK}$	at $I_{ZK}$	$I_R$	at $V_R$
	Min. (V)	Max. (V)	(mA)	Max. ( $\Omega$ )	(mA)	Max. ( $\Omega$ )	(mA)	Max. ( $\mu\text{A}$ )	(V)
ZMM3V6LZB	3.6	3.845	20	60	20	1000	1	10	1
ZMM3V9LZB	3.89	4.16	20	50	20	1000	1	5	1
ZMM4V3LZB	4.17	4.43	20	40	20	1000	1	5	1
ZMM4V7LZB	4.55	4.8	20	25	20	900	1	5	1
ZMM5V1LZB	4.94	5.2	20	20	20	800	1	5	1.5
ZMM5V6LZB	5.45	5.73	20	13	20	500	1	5	2.5
ZMM6V2LZB	5.96	6.27	20	10	20	300	1	5	3
ZMM6V8LZB	6.49	6.83	20	8	20	150	0.5	2	3.5
ZMM7V5LZB	7.07	7.45	20	8	20	120	0.5	0.5	4
ZMM8V2LZB	7.78	8.19	20	8	20	120	0.5	0.5	5
ZMM9V1LZB	8.57	9.01	20	8	20	120	0.5	0.5	6
ZMM10LZB	9.41	9.9	20	8	20	120	0.5	0.2	7
ZMM11LZB	10.5	11.05	10	10	10	120	0.5	0.2	8
ZMM12LZB	11.44	12.03	10	12	10	110	0.5	0.2	9
ZMM13LZB	12.55	13.21	10	14	10	110	0.5	0.2	10
ZMM15LZB	13.89	14.62	10	16	10	110	0.5	0.2	11
ZMM16LZB	15.25	16.04	10	18	10	150	0.5	0.2	12
ZMM18LZB	16.82	17.7	10	23	10	150	0.5	0.2	13
ZMM20LZB	18.63	19.59	10	28	10	200	0.5	0.2	15
ZMM22LZB	20.64	21.71	5	30	5	200	0.5	0.2	17
ZMM24LZB	22.61	23.77	5	35	5	200	0.5	0.2	19
ZMM27LZB	24.97	26.26	5	45	5	250	0.5	0.2	21
ZMM30LZB	27.7	29.13	5	55	5	250	0.5	0.2	23
ZMM33LZB	30.32	31.88	5	65	5	250	0.5	0.2	25
ZMM36LZB	32.79	34.49	5	75	5	250	0.5	0.2	27
ZMM39LZB	35.36	37.19	5	85	5	250	0.5	0.2	30

<sup>1)</sup> Tested with pulses  $t_p = 20\text{ ms}$ .



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