

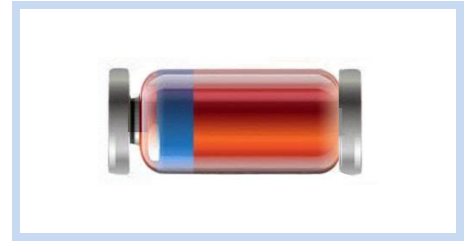
Zener Diodes Mini-MELF, LL34

ZMM52-B Series

MERITEK

FEATURE

- Zener Voltage Range: 2.4V to 75V
- Zener Voltage Tolerance; $\pm 5\%$
- Power Dissipation: 500mW
- Planar Die Construction
- Application: Power Management Systems, Voltage Regulation



MECHANICAL DATA

- Case: Mini-MELF, LL34, Hermetical Sealed Glass Molded
- Polarity: Cathode Indicated by Band



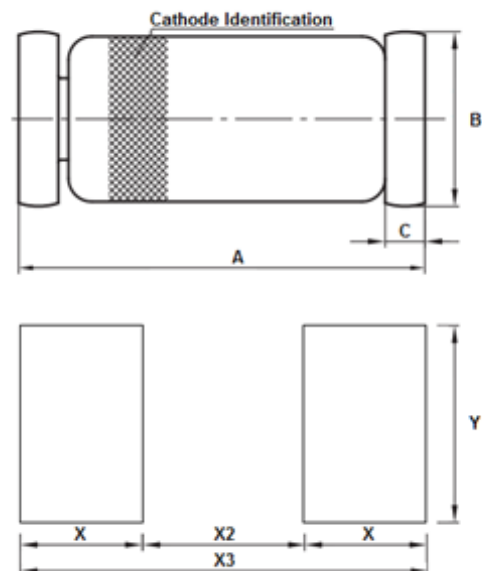
MAXIMUM RATINGS

Parameter	Symbols	Value	Unit
Power Dissipation	P_D	500	mW
Forward Voltage at $I_F=100\text{mA}$	V_F	1.1	V
Resistance Junction to Ambient	$R_{\theta JA}$	0.3	K/mW
Junction Temperature Range	T_J	-55~+175	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55~+175	$^{\circ}\text{C}$

Note: $T_A = 25^{\circ}\text{C}$ unless otherwise noted

DIMENSIONS AND RECOMMENDED LAND PATTERN

LL-34	Min (mm)	Max (mm)
A	3.3	3.7
B	1.4	1.6
C	--	0.47
X	1.37	1.37
X2	2.34	2.34
X3	5.08	5.08
Y	1.62	1.62



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ELECTRICAL CHARACTERISTICS

Part Number	Nominal Zener Voltage				Max Zener Impedance Z_{ZT} at I_{ZT} , Z_{ZK} at $I_{ZK}=0.25mA$		Max Reverse Leakage Current	
	V_Z at I_{ZT}			I_{ZT} (mA)	Z_{ZT} (Ω)	Z_{ZK} (Ω)	I_R at V_R	
	Nom (V)	Min (V)	Max (V)				(μA)	(V)
ZMM5221B	2.4	2.28	2.52	20	30	1200	100	1.0
ZMM5223B	2.7	2.57	2.83	20	30	1300	75	1.0
ZMM5225B	3.0	2.85	3.15	20	29	1600	50	1.0
ZMM5226B	3.3	3.14	3.46	20	28	1600	25	1.0
ZMM5227B	3.6	3.42	3.78	20	24	1700	15	1.0
ZMM5228B	3.9	3.71	4.09	20	23	1900	10	1.0
ZMM5229B	4.3	4.09	4.51	20	22	2000	5.0	1.0
ZMM5230B	4.7	4.47	4.93	20	19	1900	5.0	2.0
ZMM5231B	5.1	4.85	5.35	20	17	1600	5.0	2.0
ZMM5232B	5.6	5.32	5.88	20	11	1600	5.0	3.0
ZMM5234B	6.2	5.89	6.51	20	7	1000	5.0	4.0
ZMM5235B	6.8	6.46	7.14	20	5	750	3.0	5.0
ZMM5236B	7.5	7.13	7.87	20	6	500	3.0	6.0
ZMM5237B	8.2	7.79	8.61	20	8	500	3.0	6.5
ZMM5239B	9.1	8.65	9.55	20	10	600	3.0	7.0
ZMM5240B	10	9.50	10.50	20	17	600	3.0	8.0
ZMM5241B	11	10.45	11.55	20	22	600	2.0	8.4
ZMM5242B	12	11.40	12.60	20	30	600	1.0	9.1
ZMM5243B	13	12.35	13.65	9.5	13	600	0.5	9.9
ZMM5245B	15	14.25	15.75	8.5	16	600	0.1	11
ZMM5246B	16	15.20	16.80	7.8	17	600	0.1	12
ZMM5248B	18	17.10	18.90	7.0	21	600	0.1	14
ZMM5250B	20	19.00	21.00	6.2	25	600	0.1	15
ZMM5251B	22	20.90	23.10	5.6	29	600	0.1	17
ZMM5252B	24	22.80	25.20	5.2	33	600	0.1	18
ZMM5254B	27	25.65	28.35	4.6	41	600	0.1	21
ZMM5256B	30	28.50	31.50	4.2	49	600	0.1	23
ZMM5257B	33	31.35	34.65	3.8	58	700	0.1	25
ZMM5258B	36	34.20	37.80	3.4	70	700	0.1	27
ZMM5259B	39	37.05	40.95	3.2	80	800	0.1	30
ZMM5260B	43	40.85	45.15	3.0	93	900	0.1	33
ZMM5261B	47	44.65	49.35	2.7	105	1000	0.1	36
ZMM5262B	51	48.45	53.55	2.5	125	1100	0.1	39
ZMM5263B	56	53.20	58.80	2.2	150	1300	0.1	45
ZMM5265B	62	58.90	65.10	2.0	185	1400	0.1	47
ZMM5266B	68	64.60	71.40	1.8	230	1600	0.1	52
ZMM5267B	75	71.25	78.75	1.7	270	1700	0.1	56

Note:

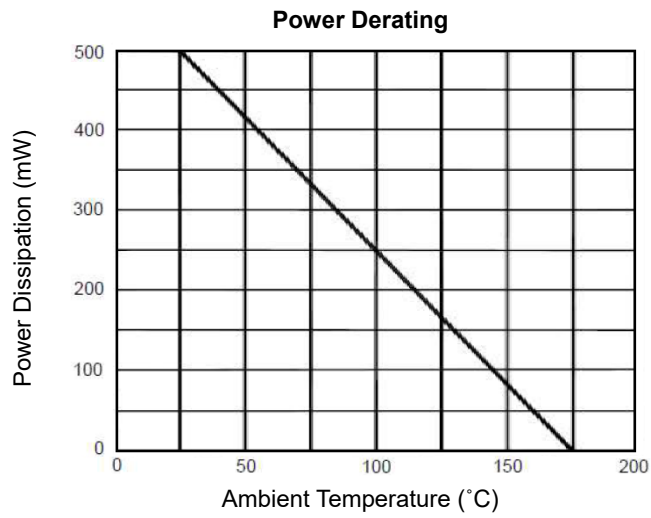
1. $T_A = 25^\circ C$ unless otherwise noted, Tested with pulses $t_p=20ms$.
2. Valid provided that electrodes are kept at ambient temperature.

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CHARACTERISTIC CURVES



*Specifications subject to change without notice.