



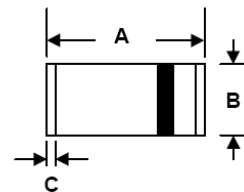
ZMM5221B~ZMM5267B

Silicon Planar Zener Diodes

Features

- Standard zener voltage tolerance is $\pm 20\%$. Add suffix "A" for + 10% tolerance. suffix "B" for + 5% tolerance and suffix "C" for + 2% tolerance. Other tolerance, non standard and higher zener voltages are upon request

LL-34



MiniMELF		
Dim	Min.	Max.
A	3.30	3.60
B	1.40	1.50
C	0.25	0.33
All Dimension in mm		

Absolute Maximum Ratings at $T_A = 25\text{ }^{\circ}\text{C}$

Parameter	Symbols	Value	Unit
Maximum Power Dissipation ^{Note1}	P_D	0.5	W
Junction Temperature	T_J	175	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-65 to +175	$^{\circ}\text{C}$

Note1: Valid provided that electrodes are kept at ambient temperature.

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

Parameter	Symbols	Max.	Unit
Thermal Resistance Junction to Ambient Air ^{Note1}	$R_{\theta JA}$	300	$^{\circ}\text{C/W}$
Forward Voltage at $I_F=200\text{mA}$	V_F	1.1	V

Note1: Valid provided that electrodes are kept at ambient temperature.



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

Type	Zener Voltage Range ^{Note1}			I _{ZT}	Dynamic Impedance			Reverse Current	
	V _{ZT} at I _{ZT}				Z _{ZT}	Z _{ZK}	at I _{ZK}	I _R	at V _R
	Min.(V)	Nom.(V)	Max.(V)	(mA)	Max.(Ω)	Max.(Ω)	(mA)	Max.(μA)	(V)
ZMM5221B	2.28	2.4	2.52	20	30	1200	0.25	100	1
ZMM5222B	2.38	2.5	2.62	20	30	1250	0.25	100	1
ZMM5223B	2.57	2.7	2.83	20	30	1300	0.25	75	1
ZMM5224B	2.66	2.8	2.94	20	30	1400	0.25	75	1
ZMM5225B	2.85	3	3.15	20	29	1600	0.25	50	1
ZMM5226B	3.14	3.3	3.46	20	28	1600	0.25	25	1
ZMM5227B	3.42	3.6	3.78	20	24	1700	0.25	15	1
ZMM5228B	3.71	3.9	4.09	20	23	1900	0.25	10	1
ZMM5229B	4.09	4.3	4.51	20	22	2000	0.25	5	1
ZMM5230B	4.47	4.7	4.93	20	19	1900	0.25	5	2
ZMM5231B	4.85	5.1	5.35	20	17	1600	0.25	5	2
ZMM5232B	5.32	5.6	5.88	20	11	1600	0.25	5	3
ZMM5233B	5.7	6	6.3	20	7	1600	0.25	5	3.5
ZMM5234B	5.89	6.2	6.51	20	7	1000	0.25	5	4
ZMM5235B	6.46	6.8	7.14	20	5	750	0.25	3	5
ZMM5236B	7.13	7.5	7.87	20	6	500	0.25	3	6
ZMM5237B	7.79	8.2	8.61	20	8	500	0.25	3	6.5
ZMM5238B	8.27	8.7	9.13	20	8	600	0.25	3	6.5
ZMM5239B	8.65	9.1	9.55	20	10	600	0.25	3	7
ZMM5240B	9.5	10	10.5	20	17	600	0.25	3	8
ZMM5241B	10.45	11	11.55	20	22	600	0.25	2	8.4
ZMM5242B	11.4	12	12.6	20	30	600	0.25	1	9.1
ZMM5243B	12.35	13	13.65	9.5	13	600	0.25	0.5	9.9
ZMM5244B	13.3	14	14.7	9	15	600	0.25	0.1	10
ZMM5245B	14.25	15	15.75	8.5	16	600	0.25	0.1	11
ZMM5246B	15.2	16	16.8	7.8	17	600	0.25	0.1	12
ZMM5247B	16.15	17	17.85	7.4	19	600	0.25	0.1	13
ZMM5248B	17.1	18	18.9	7	21	600	0.25	0.1	14
ZMM5249B	18.05	19	19.95	6.6	23	600	0.25	0.1	14
ZMM5250B	19	20	21	6.2	25	600	0.25	0.1	15
ZMM5251B	20.9	22	23.1	5.6	29	600	0.25	0.1	17
ZMM5252B	22.8	24	25.2	5.2	33	600	0.25	0.1	18
ZMM5253B	23.75	25	26.25	5	35	600	0.25	0.1	19
ZMM5254B	25.65	27	28.35	4.6	41	600	0.25	0.1	21
ZMM5255B	26.6	28	29.4	4.4	44	600	0.25	0.1	21
ZMM5256B	28.5	30	31.5	4.2	49	600	0.25	0.1	23
ZMM5257B	31.35	33	34.65	3.8	58	700	0.25	0.1	25
ZMM5258B	34.2	36	37.8	3.4	70	700	0.25	0.1	27
ZMM5259B	37.05	39	40.95	3.2	80	800	0.25	0.1	30
ZMM5260B	40.85	43	45.15	3	93	900	0.25	0.1	33
ZMM5261B	44.65	47	49.35	2.7	105	1000	0.25	0.1	36
ZMM5262B	48.45	51	53.55	2.5	125	1100	0.25	0.1	39
ZMM5263B	53.2	56	58.8	2.2	150	1300	0.25	0.1	45
ZMM5264B	57	60	63	2.1	170	1400	0.25	0.1	46
ZMM5265B	58.9	62	65.1	2	185	1400	0.25	0.1	47
ZMM5266B	64.6	68	71.4	1.8	230	1600	0.25	0.1	52
ZMM5267B	71.25	75	78.75	1.7	270	1700	0.25	0.1	56

Note1: Tested with pulses $t_p = 20\text{ ms}$.



Typical Characteristic Curves

