

ZMM52 - SERIES

SURFACE MOUNT ZENER DIODES/MINI MELF



Device Type	Nominal zener Voltage Vz at IzT*	Test Current IzT	Maximum Zener Impedance		Typical Temperature coefficient	Maximum Reverse Leakage Current		Maximum Regulator Current IzM
			ZzT at IzT	Zzk at Izk = 0.25mA		IR	Test - Voltage suffix B	
	Volts	mA	Ω	Ω	%/°C	μ A	Volts	mA
ZMM5221B	2.4	20	30	1200	-0.085	100	1.0	191
ZMM5222B	2.5	20	30	1250	-0.085	100	1.0	182
ZMM5223B	2.7	20	30	1300	-0.080	75	1.0	168
ZMM5224B	2.8	20	30	1400	-0.080	75	1.0	162
ZMM5225B	3.0	20	29	1600	-0.075	50	1.0	151
ZMM5226B	3.3	20	28	1600	-0.070	25	1.0	138
ZMM5227B	3.6	20	24	1700	-0.065	15	1.0	126
ZMM5228B	3.9	20	23	1900	-0.060	10	1.0	115
ZMM5229B	4.3	20	22	2000	$\pm$ 0.055	5	1.0	106
ZMM5230B	4.7	20	19	1900	$\pm$ 0.03	5	2.0	97
ZMM5231B	5.1	20	17	1600	$\pm$ 0.03	55	2.0	89
ZMM5232B	5.6	20	11	1600	+0.038	5	3.0	81
ZMM5233B	6.0	20	7	1600	+0.038	5	3.5	76
ZMM5234B	6.2	20	7	1000	+0.045	3	4.0	73
ZMM5235B	6.8	20	5	750	+0.050	3	5.0	67
ZMM5236B	7.5	20	6	500	+0.058	3	6.0	61
ZMM5237B	8.2	20	8	500	+0.062	3	6.5	55
ZMM5238B	8.7	20	8	600	+0.065	3	6.5	52
ZMM5239B	9.1	20	10	600	+0.068	3	7.0	50
ZMM5240B	10	20	17	600	+0.075	3	8.0	45
ZMM5241B	11	20	22	600	+0.076	2	8.4	41
ZMM5242B	12	20	30	600	+0.077	1	9.1	38
ZMM5243B	13	9.5	13	600	+0.079	1.5	9.9	35
ZMM5244B	14	9.0	15	600	+0.082	0.1	10	32
ZMM5245B	15	8.5	16	600	+0.082	0.1	11	30
ZMM5246B	16	7.8	17	600	+0.083	0.1	12	28
ZMM5247B	17	7.4	19	600	+0.084	0.1	13	27
ZMM5248B	18	7.0	21	600	+0.085	0.1	14	25
ZMM5249B	19	6.6	23	600	+0.086	0.1	14	24
ZMM5250B	20	6.2	25	600	+0.086	0.1	15	23
ZMM5251B	22	5.6	29	600	+0.087	0.1	17	21.2
ZMM5252B	24	5.2	33	600	+0.087	0.1	18	19.1
ZMM5253B	25	5.0	35	600	+0.089	0.1	19	18.2
ZMM5254B	27	4.6	41	600	+0.090	0.1	21	16.8
ZMM5255B	28	4.5	44	600	+0.091	0.1	21	16.2
ZMM5256B	30	4.2	49	600	+0.091	0.1	23	15.1
ZMM5257B	33	3.8	58	700	+0.092	0.1	25	13.8
ZMM5258B	36	3.4	70	700	+0.093	0.1	27	12.6
ZMM5259B	39	3.2	80	800	+0.094	0.1	30	11.5
ZMM5260B	43	3	93	900	+0.095	0.1	33	10.6
ZMM5261B	47	2.7	150	1000	+0.095	0.1	36	9.7

STANDARD VOLTAGE TOLERANCE IS + 5% AND:

SUFFIX "A" FOR $\pm 3\%$

SUFFIX "B" FOR $\pm 5\%$

SUFFIX "C" FOR $\pm 10\%$

SUFFIX "D" FOR $\pm 20\%$

MEASURED WITH PULSES $T_p = 40\text{m SEC.}$

ZENER DIODE NUMBERING SYSTEM

ZMM5225

B

1*

2*

1* TYPE NO., ZMM = ZENER MINI MELF

2* TOLERANCE OF VZ.

3* ZMM5225B = 3.0V $\pm 5\%$



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SURFACE MOUNT ZENER DIODES

Absolute Maximum Ratings

	Symbol	Value	Unit
Zener Current see Table“Characteristics”			
Power Dissipation at $T_{amb} = 25^{\circ}\text{C}$	P_{tot}	500 *	mW
Junction Temperature	T_j	175	$^{\circ}\text{C}$
Storage Temperature Range	T_s	- 65 to + 175	$^{\circ}\text{C}$

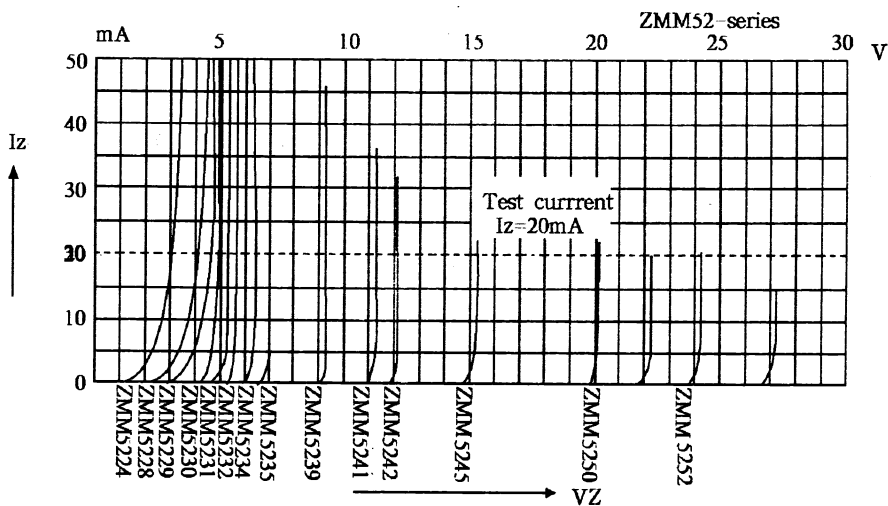
* Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.

Characteristic at $T_{amb} = 25^{\circ}\text{C}$

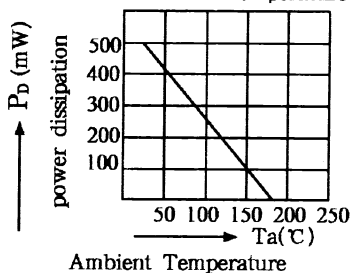
	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	0.3 *	K/mW
Forward Voltage at $I_F = 200\text{mA}$	V_F	-	-	1.1	V

* Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.

Breakdown characteristics



changes in the power dissipation
due to the ambient temperature



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