ZMM52 – SERIES

SURFACE MOUNT ZENER DIODES/MINI MELF

JGD

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	%/℃	μA	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	± 0.055	5	1.0	106
ZMM5230B	4.7	20	19	1900	± 0.03	5	2.0	97
ZMM5231B	5.1	20	17	1600	± 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 ± 3%

SUFFIX "B" FOR ± 5%
SUFFIX "C" FOR ± 10%
SUFFIX "D" FOR ± 20%
MEASURED WITH PULSES Tp = 40m SEC.

ZENER DIODE NUMBERING SYSTEM

$$\frac{\text{ZMM5225}}{1^*} \quad \frac{\text{B}}{2^*}$$

1* TYPE NO., ZMM = ZENER MINI MELF
2* TOLERANCE OF VZ.
3* ZMM5225B = 3.0V ± 5%

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ZMM52 – SERIES

SURFACE MOUNT ZENER DIODES

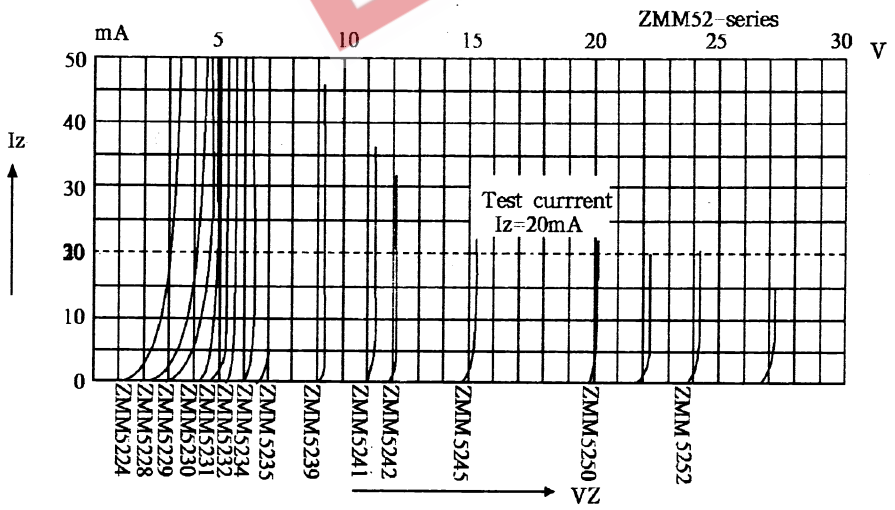
Absolute Maximum Ratings

	Symbol	Value	Unit
Zener Current see Table"Characteristics"			
Power Dissipation at T_{amb} = 25℃	P_{tot}	500*	mW
Junction Temperature	Tj	175	℃
Storage Temperature Range	Ts	– 65 to + 175	℃
* Valid provided that leads at a distance of 10mm form case are kept at ambient temperature.			

Characteristic at Tamb = 25℃

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