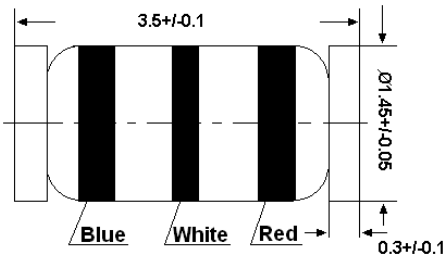
ZMM957B...ZMM984B

SILICON PLANAR ZENER DIODES

LL-34



Glass case MiniMELF
Dimensions in mm

Absolute Maximum Ratings (T_a = 25°C)

	Symbol	Value	Unit
Power Dissipation	P_{tot}	500[1)]	mW
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_S	-65 to +175	°C
[1)] Valid provided that leads at a distance of 8mm from case are kept at ambient temperature.			

Characteristics at T_{amb} = 25°C

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	0.3[1)]	K/mW
Forward Voltage at I_F = 200mA	V_F	-	-	1.5	V
[1)] Valid provided that leads at a distance of 8mm from case are kept at ambient temperature.					

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Characteristics at $T_j = 25^oC$

Type	Zener Voltage Range[1]			Dynamic resistance			Maximum Reverse Leakage Current		Maximum Zener Current	Typical Temperature Coefficient
	Vznom	V_Z	I_{ZT}	r_{zjT}	r_{zjk} at I_{ZK}		I_R[2]	at V_R	I_{ZM}	
	V	V	mA	Ω	Ω	mA	µA	V	mA	%/°C
ZMM957B	6.8	6.46…7.14	18.5	4.5	700	1	150	5.2	55	0.05
ZMM958B	7.5	7.13…7.88	16.5	5.5	700	0.5	75	5.7	50	0.058
ZMM959B	8.2	7.79…8.61	15	6.5	700	0.5	50	6.2	45	0.065
ZMM960B	9.1	8.65…9.56	14	7.5	700	0.5	25	6.9	41	0.068
ZMM961B	10	9.5…10.5	12.5	8.5	700	0.25	10	7.6	38	0.075
ZMM962B	11	10.45…11.55	11.5	9.5	700	0.25	5	8.4	32	0.076
ZMM963B	12	11.4…12.6	10.5	11.5	700	0.25	5	9.1	31	0.077
ZMM964B	13	12.35…13.65	9.5	13	700	0.25	5	9.9	28	0.079
ZMM965B	15	14.25…15.75	8.5	16	700	0.25	5	11.4	25	0.082
ZMM966B	16	15.2…16.8	7.8	17	700	0.25	5	12.2	24	0.083
ZMM967B	18	17.1…18.9	7	21	750	0.25	5	13.7	20	0.085
ZMM968B	20	19…21	6.2	25	750	0.25	5	15.2	18	0.086
ZMM969B	22	20.9…23.1	5.6	29	750	0.25	5	16.7	16	0.087
ZMM970B	24	22.8…25.2	5.2	33	750	0.25	5	18.2	15	0.088
ZMM971B	27	25.65…28.35	4.6	41	750	0.25	5	20.6	13	0.09
ZMM972B	30	28.5…31.5	4.2	49	1000	0.25	5	22.8	12	0.091
ZMM973B	33	31.35…34.65	3.8	58	1000	0.25	5	25.1	11	0.092
ZMM974B	36	34.2…37.8	3.4	70	1000	0.25	5	27.4	10	0.093
ZMM975B	39	37.05…40.95	3.2	80	1000	0.25	5	29.7	9.5	0.094
ZMM976B	43	40.85…45.15	3	93	1500	0.25	5	32.7	8.8	0.095
ZMM977B	47	44.65…49.35	2.7	105	1500	0.25	5	35.8	7.9	0.095
ZMM978B	51	48.45…53.55	2.5	125	1500	0.25	5	38.8	7.4	0.096
ZMM979B	56	53.2…58.8	2.2	150	2000	0.25	5	42.6	6.8	0.096
ZMM980B	62	58.9…65.1	2	185	2000	0.25	5	47.1	6	0.097
ZMM981B	68	64.6…71.4	1.8	230	2000	0.25	5	51.7	5.5	0.097
ZMM982B	75	71.25…78.75	1.7	270	2000	0.25	5	56	5	0.098
ZMM983B	82	77.9…86.1	1.5	330	3000	0.25	5	62.2	4.6	0.098
ZMM984B	91	86.45…95.55	1.4	400	3000	0.25	5	69.2	4.1	0.099

[1] Tested with pulses tp = 20ms

[2] Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.