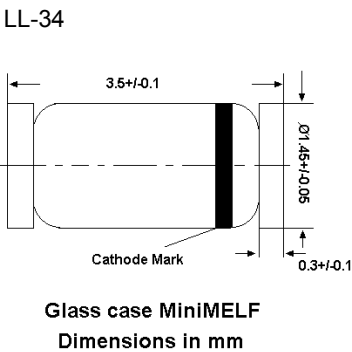


ZMM957B...ZMM982B

Silicon Epitaxial Planar Zener Diodes

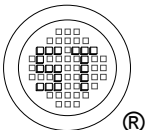


Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 175	$^{\circ}\text{C}$
¹⁾ Valid provided that electrodes are kept at ambient temperature			

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

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	0.3 ¹⁾	K/mW
Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.5	V
¹⁾ Valid provided that electrodes are kept at ambient temperature			

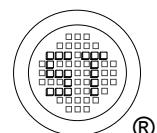


ZMM957B..ZMM982B

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

Type	Zener Voltage ¹⁾			Dynamic Resistance			Reverse Current		Maximum Zener Current
	V_{znom}	V_{ZT}	at I_{ZT}	Z_{ZT}	Z_{ZK}	at I_{ZK}	I_R	at V_R	
	(V)	(V)	(mA)	Max. (Ω)	Max. (Ω)	(mA)	Max. (μA)	(V)	I_{ZM} (mA)
ZMM957B	6.8	6.46...7.14	18.5	4.5	700	1	150	5.2	55
ZMM958B	7.5	7.13...7.88	16.5	5.5	700	0.5	75	5.7	50
ZMM959B	8.2	7.79...8.61	15	6.5	700	0.5	50	6.2	45
ZMM960B	9.1	8.65...9.56	14	7.5	700	0.5	25	6.9	41
ZMM961B	10	9.5...10.5	12.5	8.5	700	0.25	10	7.6	38
ZMM962B	11	10.45...11.55	11.5	9.5	700	0.25	5	8.4	32
ZMM963B	12	11.4...12.6	10.5	11.5	700	0.25	5	9.1	31
ZMM964B	13	12.35...13.65	9.5	13	700	0.25	5	9.9	28
ZMM965B	15	14.25...15.75	8.5	16	700	0.25	5	11.4	25
ZMM966B	16	15.2...16.8	7.8	17	700	0.25	5	12.2	24
ZMM967B	18	17.1...18.9	7	21	750	0.25	5	13.7	20
ZMM968B	20	19...21	6.2	25	750	0.25	5	15.2	18
ZMM969B	22	20.9...23.1	5.6	29	750	0.25	5	16.7	16
ZMM970B	24	22.8...25.2	5.2	33	750	0.25	5	18.2	15
ZMM971B	27	25.65...28.35	4.6	41	750	0.25	5	20.6	13
ZMM972B	30	28.5...31.5	4.2	49	1000	0.25	5	22.8	12
ZMM973B	33	31.35...34.65	3.8	58	1000	0.25	5	25.1	11
ZMM974B	36	34.2...37.8	3.4	70	1000	0.25	5	27.4	10
ZMM975B	39	37.05...40.95	3.2	80	1000	0.25	5	29.7	9.5
ZMM976B	43	40.85...45.15	3	93	1500	0.25	5	32.7	8.8
ZMM977B	47	44.65...49.35	2.7	105	1500	0.25	5	35.8	7.9
ZMM978B	51	48.45...53.55	2.5	125	1500	0.25	5	38.8	7.4
ZMM979B	56	53.2...58.8	2.2	150	2000	0.25	5	42.6	6.8
ZMM980B	62	58.9...65.1	2	185	2000	0.25	5	47.1	6
ZMM981B	68	64.6...71.4	1.8	230	2000	0.25	5	51.7	5.5
ZMM982B	75	71.25...78.75	1.7	270	2000	0.25	5	56	5

¹⁾ Tested with pulses $t_p = 20\text{ ms}$



Dated : 10/09/2009