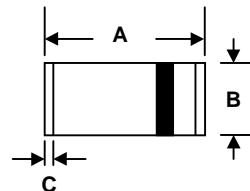


Features

MiniMELF case especially for automatic insertion. The Zener voltages are graded according to the international E24 standard. Smaller voltage tolerances and higher Zener voltages are upon request.

These diodes are also available in DO-35 case with the type designation BZX55B...

LL-34



MiniMELF		
Dim	Min	Max
A	3.30	3.60
B	1.40	1.50
C	0.25	0.33

All Dimensions in mm

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

	Symbol	Value	Unit
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_s	-55 to +175	°C

¹⁾ Valid provided that electrodes are kept at ambient temperature

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

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	0.3 ¹⁾	K/mW

¹⁾ Valid provided that electrodes are kept at ambient temperature

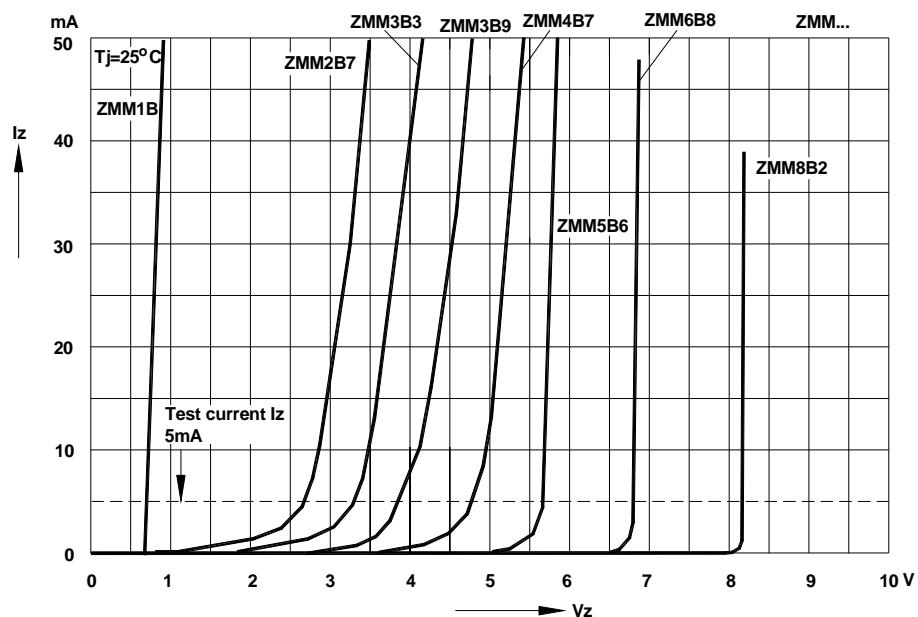
Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Reverse Leakage Current			Temp coefficient of Zener Voltage TKvz %/K
	V _{znom} V	I _{ZT} for V _{ZT} ²⁾ mA	V	r _{ZJT} Ω	r _{ZJK} at I _{ZK} Ω	I _{ZK} mA	T _a = 25°C μA	T _a = 125°C μA	I _R at V _R V	
ZMM 1B ³⁾	0.75	5	0.73...0.77	<8	<50	1	--	--	--	-0.26...-0.23
ZMM 2B0	2.0	5	1.96...2.04	<85	<600	1	<100	<200	1	-0.09...-0.06
ZMM 2B2	2.2	5	2.15...2.25	<85	<600	1	<75	<160	1	-0.09...-0.06
ZMM 2B4	2.4	5	2.35...2.45	<85	<600	1	<50	<100	1	-0.09...-0.06
ZMM 2B7	2.7	5	2.64...2.75	<85	<600	1	<10	<50	1	-0.09...-0.06
ZMM 3B0	3.0	5	2.94...3.06	<85	<600	1	<4	<40	1	-0.08...-0.05
ZMM 3B3	3.3	5	3.23...3.36	<85	<600	1	<2	<40	1	-0.08...-0.05
ZMM 3B6	3.6	5	3.52...3.67	<85	<600	1	<2	<40	1	-0.08...-0.05
ZMM 3B9	3.9	5	3.82...3.98	<85	<600	1	<2	<40	1	-0.08...-0.05
ZMM 4B3	4.3	5	4.21...4.39	<75	<600	1	<1	<20	1	-0.06...-0.03
ZMM 4B7	4.7	5	4.60...4.80	<60	<600	1	<0.5	<10	1	-0.05...+0.02
ZMM 5B1	5.1	5	4.99...5.20	<35	<550	1	<0.1	<2	1	-0.02...+0.02
ZMM 5B6	5.6	5	5.49...5.71	<25	<450	1	<0.1	<2	1	-0.05...+0.05
ZMM 6B2	6.2	5	6.07...6.32	<10	<200	1	<0.1	<2	2	0.03...0.06
ZMM 6B8	6.8	5	6.66...6.94	<8	<150	1	<0.1	<2	3	0.03...0.07
ZMM 7B5	7.5	5	7.35...7.65	<7	<50	1	<0.1	<2	5	0.03...0.07
ZMM 8B2	8.2	5	8.04...8.36	<7	<50	1	<0.1	<2	6.2	0.03...0.08
ZMM 9B1	9.1	5	8.92...9.28	<10	<50	1	<0.1	<2	6.8	0.03...0.09
ZMM 10B	10	5	9.8...10.2	<15	<70	1	<0.1	<2	7.5	0.03...0.1
ZMM 11B	11	5	10.8...11.2	<20	<70	1	<0.1	<2	8.2	0.03...0.11
ZMM 12B	12	5	11.8...12.2	<20	<90	1	<0.1	<2	9.1	0.03...0.11
ZMM 13B	13	5	12.7...13.3	<26	<110	1	<0.1	<2	10	0.03...0.11
ZMM 15B	15	5	14.7...15.3	<30	<110	1	<0.1	<2	11	0.03...0.11
ZMM 16B	16	5	15.7...16.3	<40	<170	1	<0.1	<2	12	0.03...0.11
ZMM 18B	18	5	17.6...18.4	<50	<170	1	<0.1	<2	13	0.03...0.11
ZMM 20B	20	5	19.6...20.4	<55	<220	1	<0.1	<2	15	0.03...0.11
ZMM 22B	22	5	21.6...22.5	<55	<220	1	<0.1	<2	16	0.04...0.12
ZMM 24B	24	5	23.5...24.5	<80	<220	1	<0.1	<2	18	0.04...0.12
ZMM 27B	27	5	26.4...27.6	<80	<220	1	<0.1	<2	20	0.04...0.12
ZMM 30B	30	5	29.4...30.6	<80	<220	1	<0.1	<2	22	0.04...0.12
ZMM 33B	33	5	32.3...33.7	<80	<220	1	<0.1	<2	24	0.04...0.12
ZMM 36B	36	5	35.2...36.8	<80	<220	1	<0.1	<2	27	0.04...0.12
ZMM 39B	39	2.5	38.2...39.8	<90	<500	0.5	<0.1	<5	30	0.04...0.12
ZMM 43B	43	2.5	42.1...43.9	<90	<500	0.5	<0.1	<5	33	0.04...0.12
ZMM 47B	47	2.5	46.0...48.0	<110	<600	0.5	<0.1	<5	36	0.04...0.12
ZMM 51B	51	2.5	49.9...52.1	<125	<700	0.5	<0.1	<10	39	0.04...0.12
ZMM 56B	56	2.5	54.8...57.2	<135	<700	0.5	<0.1	<10	43	0.04...0.12
ZMM 62B	62	2.5	60.7...63.3	<150	<1000	0.5	<0.1	<10	47	0.04...0.12
ZMM 68B	68	2.5	66.6...69.4	<200	<1000	0.5	<0.1	<10	51	0.04...0.12
ZMM 75B	75	2.5	73.5...76.5	<250	<1000	0.5	<0.1	<10	56	0.04...0.12

1) Tested with pulses t_p = 20 ms.

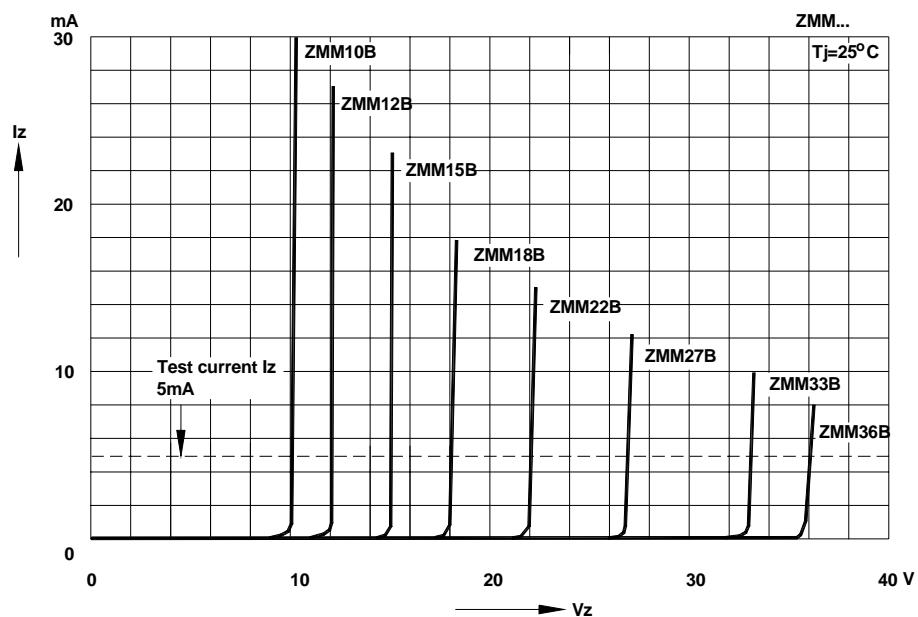
1) Valid provided that electrodes are kept at ambient temperature

2) The ZMM1 is a silicon diode with operation in forward direction. Hence, the index of all parameters should be "F" instead of "Z". Connect the cathode electrode to the negative pole.

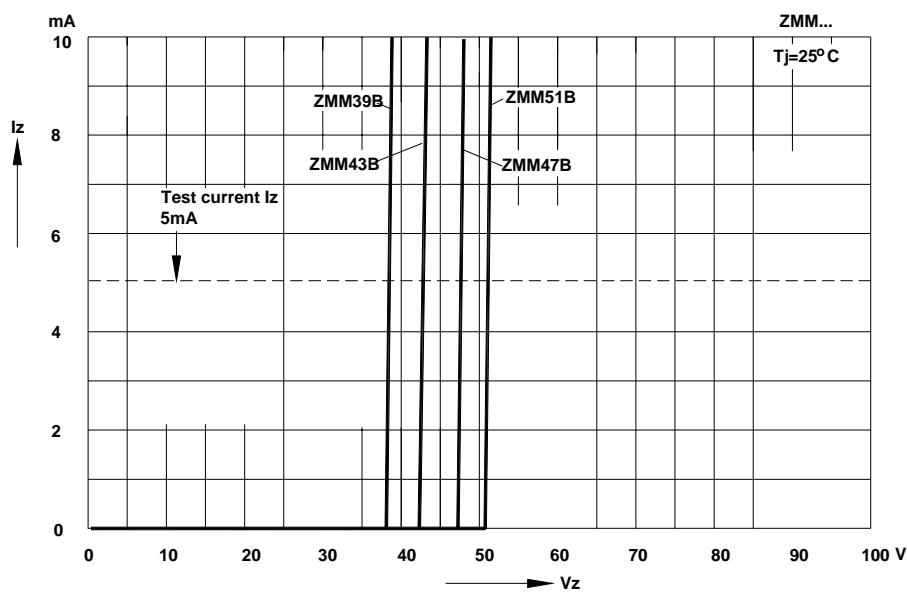
Breakdown characteristics
 $T_j = \text{constant (pulsed)}$



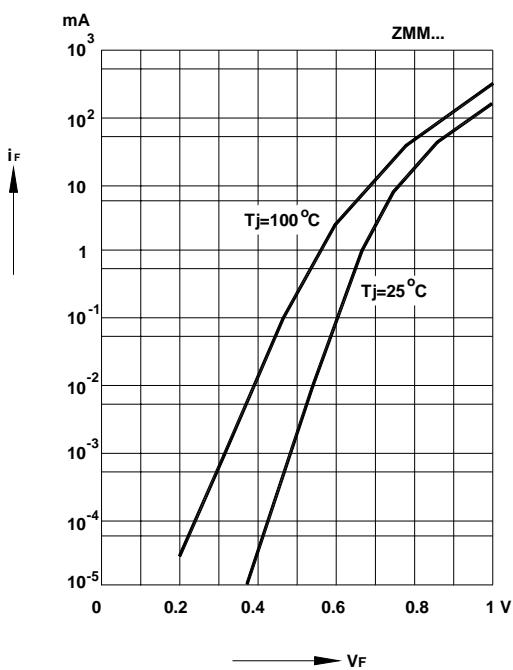
Breakdown characteristics
 $T_j = \text{constant (pulsed)}$



Breakdown characteristics
 $T_j = \text{constant (pulsed)}$



Forward characteristics



Admissible power dissipation versus ambient temperature
 Valid provided that electrodes are kept at ambient temperature.

