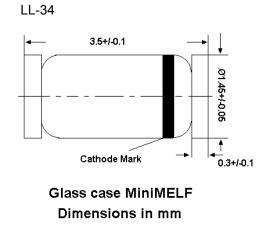
SILICON PLANAR ZENER DIODES

in MiniMELF case especially for automatic insertion. The Zener voltages are graded according to the international E 24 standard. Smaller voltage tolerances and higher Zener voltages are upon request.

These diodes are also available in DO-35 case with the type designation BZX55C...



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

	Symbol	Value	Unit				
Power Dissipation	P _{tot}	500 ¹⁾	mW				
Junction Temperature	Tj	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°C

	Symbol	Min.	Тур.	Max.	Unit			
Thermal Resistance Junction to Ambient Air	R _{thA}	-	-	0.31)	K/mW			
Forward Voltage at I _F = 100mA	V _F	-	-	1	V			
1) Valid provided that electrodes are kept at ambient temperature								









ZMM 1...ZMM200

Туре	Zener Voltage Range ¹⁾			Dynamic Resistance		Reverse Leakage Current			Temp coefficient of Zener Voltage	
	Vznom V		or V _{ZT} ²⁾	r _{ZJT}	r _{zJK} at		T _a =25°C	T _a = 125°C	I _R at V _R	TKvz %/K
	V	mA	V	Ω	Ω	mA	μΑ	μΑ	V	/0/TX
ZMM 1 ³⁾	0.75	5	0.70.8	<8	<50	1				-0.260.23
ZMM 2V0	2.0	5	1.802.15	<85	<600	1	<100	<200	1	-0.090.06
ZMM 2V2	2.2	5	2.082.33	<85	<600	1	<75	<160	1	-0.090.06
ZMM 2V4	2.4	5	2.282.56	<85	<600	1	<50	<100	1	-0.090.06
ZMM 2V7	2.7	5	2.52.9	<85	<600	1	<10	<50	1	-0.090.06
ZMM 3V0	3.0	5	2.83.2	<85	<600	11	<4	<40	1	-0.080.05
ZMM 3V3	3.3	5	3.13.5	<85	<600	1	<2	<40	1	-0.080.05
ZMM 3V6	3.6	5	3.43.8	<85	<600	1	<2	<40	1	-0.080.05
ZMM 3V9	3.9	5	3.74.1	<85	<600	1	<2	<40	1	-0.080.05
ZMM 4V3	4.3	5	4.04.6	<75	<600	1	<1	<20	1	-0.060.03
ZMM 4V7	4.7	5	4.45.0	<60	<600	1	<0.5	<10	1	-0.05+0.02
ZMM 5V1	5.1	5	4.85.4	<35	<550	1	<0.1	<2	1	-0.02+0.02
ZMM 5V6	5.6	5	5.26.0	<25	<450	1	<0.1	<2	1	-0.05+0.05
ZMM 6V2	6.2	5	5.86.6	<10	<200	1	<0.1	<2	2	0.030.06
ZMM 6V8	6.8	5	6.47.2	<8	<150	1	<0.1	<2	3	0.030.07
ZMM 7V5	7.5	5	7.07.9	<7	<50	1	<0.1	<2	5	0.030.07
ZMM 8V2	8.2	5	7.78.7	<7	<50	1	<0.1	<2	6.2	0.030.08
ZMM 9V1	9.1	5	8.59.6	<10	<50	1	<0.1	<2	6.8	0.030.09
ZMM 10	10	5	9.410.6	<15	<70	1	<0.1	<2	7.5	0.030.1
ZMM 11	11	5	10.411.6	<20	<70	1	<0.1	<2	8.2	0.030.11
ZMM 12	12	5	11.412.7	<20	<90	1	<0.1	<2	9.1	0.030.11
ZMM 13	13	5	12.414.1	<26	<110	1	<0.1	<2	10	0.030.11
ZMM 15	15	5	13.815.6	<30	<110	1	<0.1	<2	11	0.030.11
ZMM 16	16	5	15.317.1	<40	<170	1	<0.1	<2	12	0.030.11
ZMM 18	18	5	16.819.1	<50	<170	1	<0.1	<2	13	0.030.11
ZMM 20	20	5	18.821.2	<55	<220	1	<0.1	<2	15	0.030.11
ZMM 22	22	5	20.823.3	<55	<220	1	<0.1	<2	16	0.040.12
ZMM 24	24	5	22.825.6	<80	<220	1	<0.1	<2	18	0.040.12
ZMM 27	27	5	25.128.9	<80	<220	1	<0.1	<2	20	0.040.12
ZMM 30	30	5	2832	<80	<220	1	<0.1	<2	22	0.040.12
ZMM 33	33	5	3135	<80	<220	1	<0.1	<2	24	0.040.12
ZMM 36	36	5	3438	<80	<220	1	<0.1	<2	27	0.040.12
ZMM 39	39	2.5	3741	<90	<500	0.5	<0.1	<5	30	0.040.12
ZMM 43	43	2.5	4046	<90	<500	0.5	<0.1	<5	33	0.040.12
ZMM 47	47	2.5	4450	<110	<600	0.5	<0.1	<5 <5	36	0.040.12
ZMM 51	51	2.5	4854	<125	<700	0.5	<0.1	<10	39	0.040.12
ZMM 56	56	2.5	5260	<135	<700	0.5	<0.1	<10	43	0.040.12
	62						<0.1	<10	43	
ZMM 62		2.5	5866	<150	<1000	0.5				0.040.12
ZMM 68	68	2.5	6472	<200	<1000	0.5	<0.1	<10	51	0.040.12
ZMM 75	75	2.5	7079	<250	<1000	0.5	<0.1	<10	56	0.040.12
ZMM 82	82	2.5	7787	<300	<1500	0.25	<0.1	<10	62	0.050.12
ZMM 91	91	1	8596	<450	<2000	0.1	<0.1	<10	68	0.050.12
ZMM 100	100	1	94106	<450	<5000	0.1	<0.1	<10	75	0.050.12
ZMM 110	110	1	104116	<600	<5000	0.1	<0.1	<10	82	0.050.12
ZMM 120	120	1	114127	<800	<5500	0.1	<0.1	<10	91	0.050.12
ZMM 130	130	1	124141	<950	<6000	0.1	<0.1	<10	100	0.050.12
ZMM 150	150	1	138156	<1250	<6500	0.1	<0.1	<10	110	0.050.12
ZMM 160	160	1	153171	<1400	<7000	0.1	<0.1	<10	120	0.050.12
ZMM 180	180	1	168191	<1700	<8500	0.1	<0.1	<10	130	0.050.12
ZMM 200	200 th nulses t ₋ =	1	188212	<2000	<10000	0.1	<0.1	<10	150	0.050.12

- Tested with pulses t_p = 20 ms.
- Valid provided that electrodes are kept at ambient temperature
- 2) 3) 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.



SEMTECH ELECTRONICS LTD.

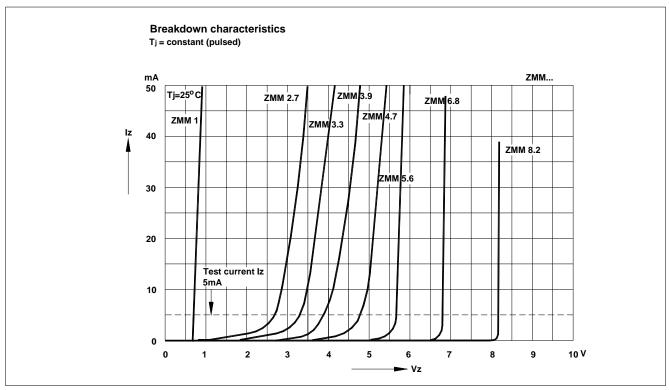
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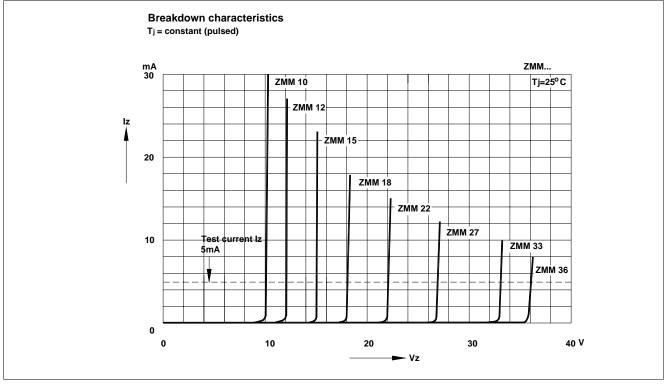






Dated: 20/09/2005





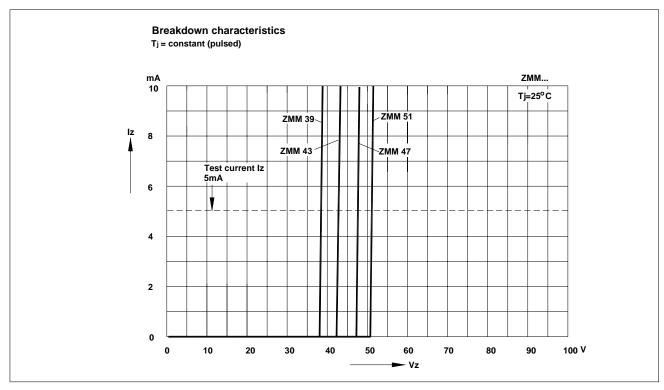


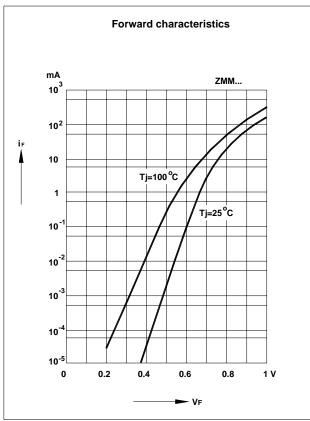


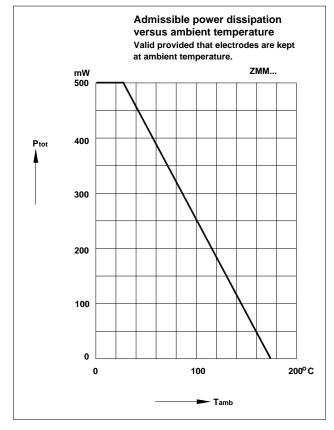










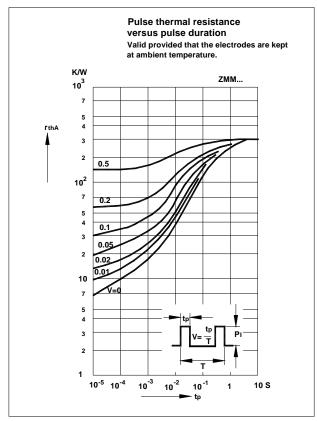


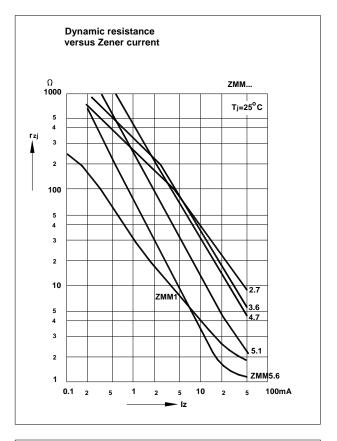


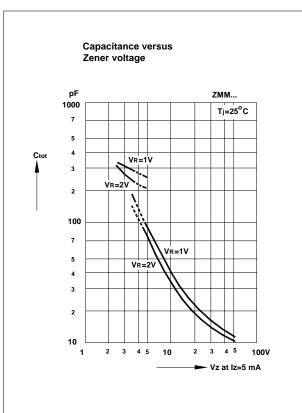


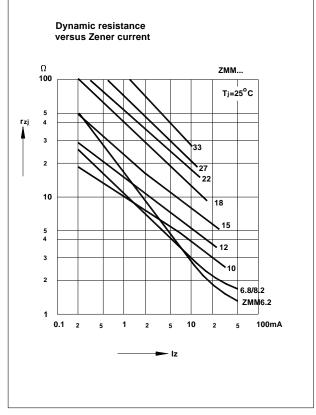












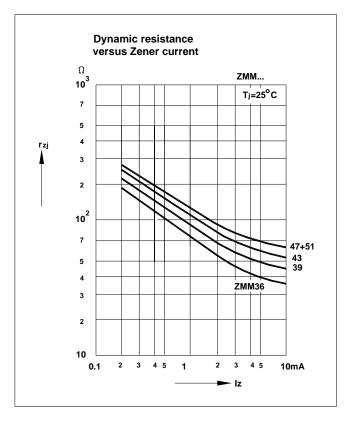


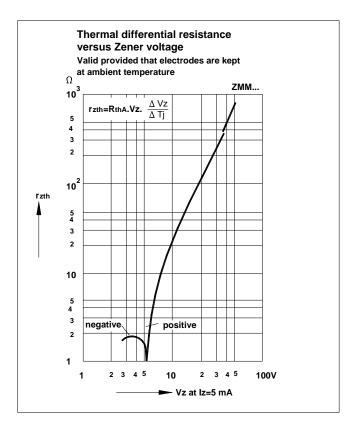
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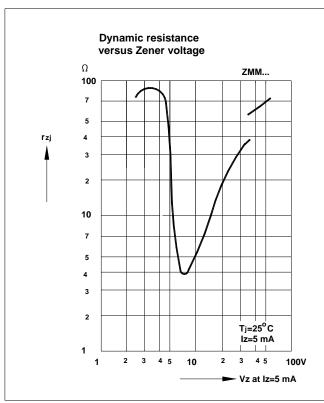


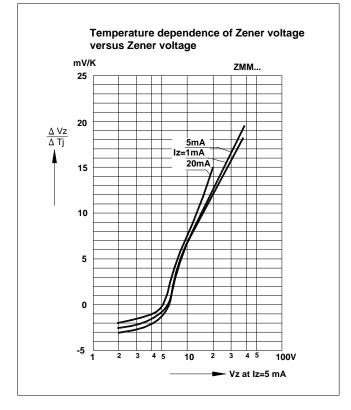








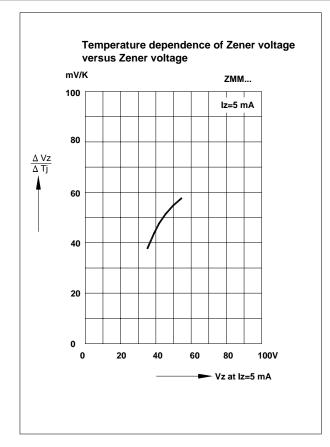


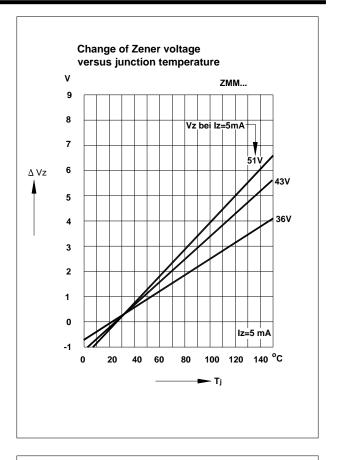


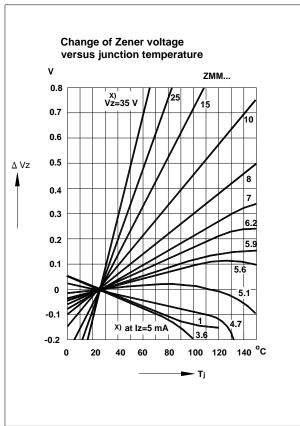


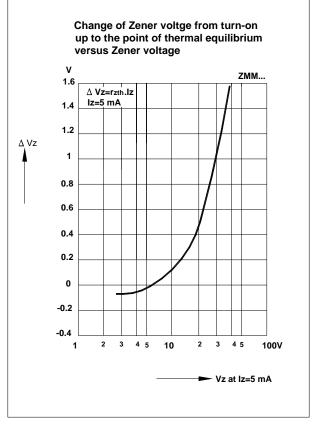














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