

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 BZX55C...



LL-34

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Power Dissipation	P _{tot}	500 ¹⁾	mW
Junction Temperature	T _j	175	°C
Storage Temperature Range	T _{stg}	- 55 to + 175	°C

Characteristics at Ta = 25 °C

Symbol	Max.	Unit
R _{thA}	0.3 1)	K/mW
V _F	1	V
	R _{thA}	R _{thA} 0.3 ¹⁾



Characteristics at T = 25 °C

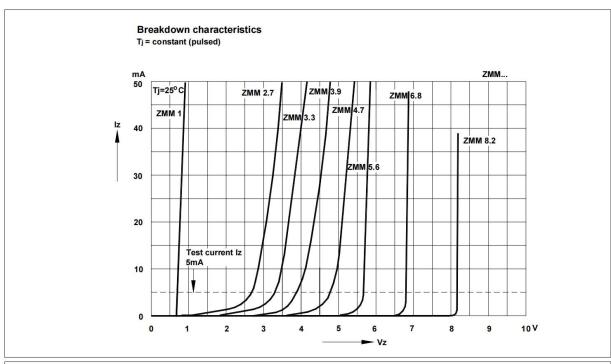
	Zener Voltage Range 1)			Dynamic Resistance			Reverse Leakage Current			Temp. Coefficient
Type	V _{Znom}	V _{ZT}	at I _{ZT}	Z _{ZT}	Z _{ZK}	at I _{ZK}	T _a = 25 °C	T _a = 125 °C at V _R	of Zener Voltage	
	(V)	(V)	(mA)	Max. (Ω)	Max. (Ω)	(mA)	Max. (µA)	Max. (µA)	(V)	TKvz (%/K)
ZMM1 ²⁾	0.75	0.70.8	5	8	50	1	-	-	-	-0.260.23
ZMM2V0	2	1.82.15	5	85	600	1	100	200	1	-0.090.06
ZMM2V2	2.2	2.082.33	5	85	600	1	75	160	1	-0.090.06
ZMM2V4	2.4	2.282.56	5	85	600	1	50	100	1	-0.090.06
ZMM2V7	2.7	2.52.9	5	85	600	1	10	50	1	-0.090.06
ZMM3V0	3	2.83.2	5	85	600	1	4	40	1	-0.080.05
ZMM3V3	3.3	3.13.5	5	85	600	1	2	40	1	-0.080.05
ZMM3V6	3.6	3.43.8	5	85	600	1	2	40	1	-0.080.05
ZMM3V9	3.9	3.74.1	5	85	600	1	2	40	1	-0.080.05
ZMM4V3	4.3	44.6	5	75	600	1	1	20	1	-0.060.03
ZMM4V7	4.7	4.45	5	60	600	1	0.5	10	1	-0.05+0.02
ZMM5V1	5.1	4.85.4	5	35	550	1	0.1	2	1	-0.02+0.02
ZMM5V6	5.6	5.26	5	25	450	1	0.1	2	1	-0.05+0.05
ZMM6V2	6.2	5.86.6	5	10	200	1	0.1	2	2	0.030.06
ZMM6V8	6.8	6.47.2	5	8	150	1	0.1	2	3	0.030.07
ZMM7V5	7.5	77.9	5	7	50	1	0.1	2	5	0.030.07
ZMM8V2	8.2	7.78.7	5	7	50	1	0.1	2	6.2	0.030.08
ZMM9V1	9.1	8.59.6	5	10	50	1	0.1	2	6.8	0.030.09
ZMM10	10	9.410.6	5	15	70	1	0.1	2	7.5	0.030.1
ZMM11	11	10.411.6	5	20	70	1	0.1	2	8.2	0.030.11
ZMM12	12	11.412.7	5	20	90	1	0.1	2	9.1	0.030.11
ZMM13	13	12.414.1	5	26	110	1	0.1	2	10	0.030.11
ZMM15	15	13.815.6	5	30	110	1	0.1	2	11	0.030.11
ZMM16	16	15.317.1	5	40	170	1	0.1	2	12	0.030.11
ZMM18	18	16.819.1	5	50	170	1	0.1	2	13	0.030.11
ZMM20	20	18.821.2	5	55	220	1	0.1	2	15	0.030.11
ZMM22	22	20.823.3	5	55	220	1	0.1	2	16	0.040.12
ZMM24	24	22.825.6	5	80	220	1	0.1	2	18	0.040.12
ZMM27	27	25.128.9	5	80	220	1	0.1	2	20	0.040.12
ZMM30	30	2832	5	80	220	1	0.1	2	22	0.040.12
ZMM33	33	3135	5	80	220	1	0.1	2	24	0.040.12
ZMM36	36	3438	5	80	220	1	0.1	2	27	0.040.12
ZMM39	39	3741	2.5	90	500	0.5	0.1	5	30	0.040.12
ZMM43	43	4046	2.5	90	500	0.5	0.1	5	33	0.040.12
ZMM47	47	4450	2.5	110	600	0.5	0.1	5	36	0.040.12
ZMM51	51	4854	2.5	125	700	0.5	0.1	10	39	0.040.12
ZMM56	56	5260	2.5	135	700	0.5	0.1	10	43	0.040.12
ZMM62	62	5866	2.5	150	1000	0.5	0.1	10	47	0.040.12
ZMM68	68	6472	2.5	200	1000	0.5	0.1	10	51	0.040.12
ZMM75	75	7079	2.5	250	1000	0.5	0.1	10	56	0.040.12

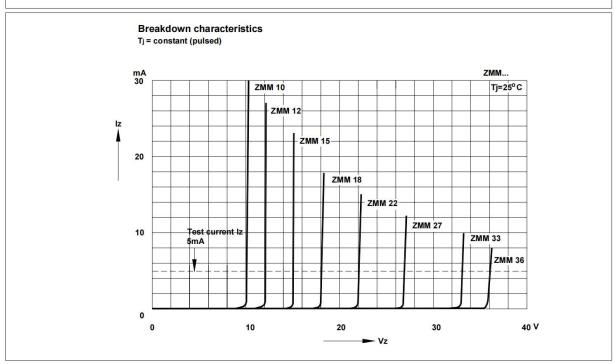
Tested with pulses t_p = 20 ms.

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.

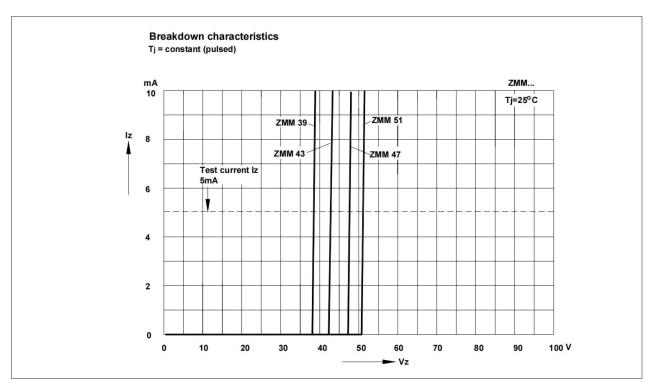


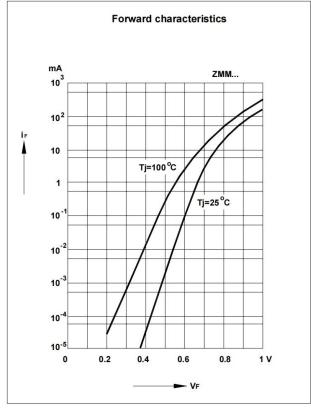
Typical Characteristics

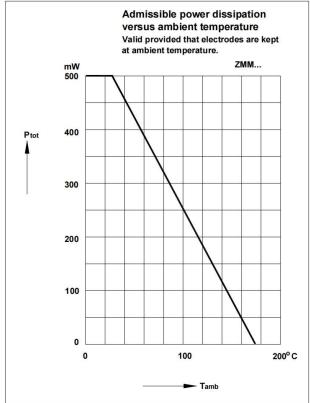




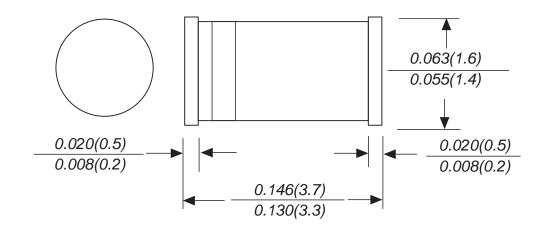








LL-34 Package Information



Dimensions in inches and (millimeters)



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