



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

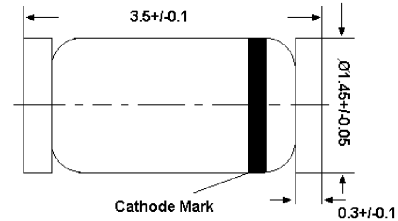
TEL: 852-2790 0314 FAX: 852-2790 0206

ZMM1-FKC...ZMM200-FKC

SILICON PLANAR POWER ZENER DIODES

in MiniMELF case especially for automatic insertion. The Zener voltages are graded according to the international E 24 standrad. Smaller voltage tolerances and digher Zene voltages on request.

These diodes are delivered taped.
Details see "Taping".



**Glass case MiniMELF
Dimensions in mm**

Absolute Maximum Ratings (T_a = 25°C)

	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
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°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





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Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Reverse Leakage Current			Temp coefficient of Zener Voltage	
	V _{Znom} V	I _{ZT} for mA	V _{ZT} ²⁾ V	r _{ZJT} Ω	r _{ZJK} at Ω	I _{ZK} mA	T _a =25°C μA	T _a =125°C μA	I _R at V _R V	TKvz %/K	
ZMM 1 ³⁾ -FKC	0.75	-	5	0.7...0.8	<8	<50	1	--	--	--	-0.26...-0.23
ZMM 2.0- FKC	2.0	-	5	1.80...2.15	<85	<600	1	<100	<200	1	-0.09...-0.06
ZMM 2.2- FKC	2.2	-	5	2.08...2.33	<85	<600	1	<75	<160	1	-0.09...-0.06
ZMM 2.4- FKC	2.4	-	5	2.28...2.56	<85	<600	1	<50	<100	1	-0.09...-0.06
ZMM 2.7- FKC	2.7	-	5	2.5...2.9	<85	<600	1	<10	<50	1	-0.09...-0.06
ZMM 3.0- FKC	3.0	-	5	2.8...3.2	<85	<600	1	<4	<40	1	-0.08...-0.05
ZMM 3.3- FKC	3.3	-	5	3.1...3.5	<85	<600	1	<2	<40	1	-0.08...-0.05
ZMM 3.6- FKC	3.6	0.5	5	3.4...3.8	<85	<600	1	<2	<40	1	-0.08...-0.05
ZMM 3.9- FKC	3.9	0.5	5	3.7...4.1	<85	<600	1	<2	<40	1	-0.08...-0.05
ZMM 4.3- FKC	4.3	0.5	5	4.0...4.6	<75	<600	1	<1	<20	1	-0.06...-0.03
ZMM 4.7- FKC	4.7	0.5	5	4.4...5.0	<60	<600	1	<0.5	<10	1	-0.05...+0.02
ZMM 5.1- FKC	5.1	0.5	5	4.8...5.4	<35	<550	1	<0.1	<2	1	-0.02...+0.02
ZMM 5.6- FKC	5.6	0.5	5	5.2...6.0	<25	<450	1	<0.1	<2	1	-0.05...+0.05
ZMM 6.2- FKC	6.2	0.5	5	5.8...6.6	<10	<200	1	<0.1	<2	2	0.03...0.06
ZMM 6.8- FKC	6.8	0.5	5	6.4...7.2	<8	<150	1	<0.1	<2	3	0.03...0.07
ZMM 7.5- FKC	7.5	0.5	5	7.0...7.9	<7	<50	1	<0.1	<2	5	0.03...0.07
ZMM 8.2- FKC	8.2	0.5	5	7.7...8.7	<7	<50	1	<0.1	<2	6.2	0.03...0.08
ZMM 9.1- FKC	9.1	0.5	5	8.5...9.6	<10	<50	1	<0.1	<2	6.8	0.03...0.09
ZMM 10- FKC	10	0.5	5	9.4...10.6	<15	<70	1	<0.1	<2	7.5	0.03...0.1
ZMM 11- FKC	11	0.5	5	10.4...11.6	<20	<70	1	<0.1	<2	8.2	0.03...0.11
ZMM 12- FKC	12	0.5	5	11.4...12.7	<20	<90	1	<0.1	<2	9.1	0.03...0.11
ZMM 13- FKC	13	0.5	5	12.4...14.1	<26	<110	1	<0.1	<2	10	0.03...0.11
ZMM 15- FKC	15	0.5	5	13.8...15.6	<30	<110	1	<0.1	<2	11	0.03...0.11
ZMM 16- FKC	16	0.5	5	15.3...17.1	<40	<170	1	<0.1	<2	12	0.03...0.11
ZMM 18- FKC	18	0.5	5	16.8...19.1	<50	<170	1	<0.1	<2	13	0.03...0.11
ZMM 20- FKC	20	0.5	5	18.8...21.2	<55	<220	1	<0.1	<2	15	0.03...0.11
ZMM 22- FKC	22	0.5	5	20.8...23.3	<55	<220	1	<0.1	<2	16	0.04...0.12
ZMM 24- FKC	24	0.5	5	22.8...25.6	<80	<220	1	<0.1	<2	18	0.04...0.12
ZMM 27- FKC	27	0.5	5	25.1...28.9	<80	<220	1	<0.1	<2	20	0.04...0.12
ZMM 30- FKC	30	0.5	5	28...32	<80	<220	1	<0.1	<2	22	0.04...0.12
ZMM 33- FKC	33	0.5	5	31...35	<80	<220	1	<0.1	<2	24	0.04...0.12
ZMM 36- FKC	36	0.5	5	34...38	<80	<220	1	<0.1	<2	27	0.04...0.12
ZMM 39- FKC	39	0.5	2.5	37...41	<90	<500	0.5	<0.1	<5	30	0.04...0.12
ZMM 43- FKC	43	0.5	2.5	40...46	<90	<500	0.5	<0.1	<5	33	0.04...0.12
ZMM 47- FKC	47	0.5	2.5	44...50	<110	<600	0.5	<0.1	<5	36	0.04...0.12
ZMM 51- FKC	51	0.5	2.5	48...54	<125	<700	0.5	<0.1	<10	39	0.04...0.12
ZMM 56- FKC	56	0.5	2.5	52...60	<135	<700	0.5	<0.1	<10	43	0.04...0.12
ZMM 62- FKC	62	0.5	2.5	58...66	<150	<1000	0.5	<0.1	<10	47	0.04...0.12
ZMM 68- FKC	68	0.5	2.5	64...72	<200	<1000	0.5	<0.1	<10	51	0.04...0.12
ZMM 75- FKC	75	0.5	2.5	70...79	<250	<1000	0.5	<0.1	<10	56	0.04...0.12
ZMM 82- FKC	82	0.5	2.5	77...87	<300	<1500	0.25	<0.1	<10	62	0.05...0.12
ZMM 91- FKC	91	0.5	1	85...96	<450	<2000	0.1	<0.1	<10	68	0.05...0.12
ZMM 100- FKC	100	0.5	1	94...106	<450	<5000	0.1	<0.1	<10	75	0.05...0.12
ZMM 110- FKC	110	0.5	1	104...116	<600	<5000	0.1	<0.1	<10	82	0.05...0.12
ZMM 120- FKC	120	0.5	1	114...127	<800	<5500	0.1	<0.1	<10	91	0.05...0.12
ZMM 130- FKC	130	0.5	1	124...141	<950	<6000	0.1	<0.1	<10	100	0.05...0.12
ZMM 150- FKC	150	0.5	1	138...156	<1250	<6500	0.1	<0.1	<10	110	0.05...0.12
ZMM 160- FKC	160	0.5	1	153...171	<1400	<7000	0.1	<0.1	<10	120	0.05...0.12
ZMM 180- FKC	180	0.5	1	168...191	<1700	<8500	0.1	<0.1	<10	130	0.05...0.12
ZMM 200- FKC	200	0.5	1	188...212	<2000	<10000	0.1	<0.1	<10	150	0.05...0.12

1) Tested with pulses t_p = 20 ms.

2) Valid provided that electrodes are kept at ambient temperature

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.





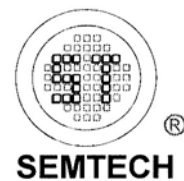
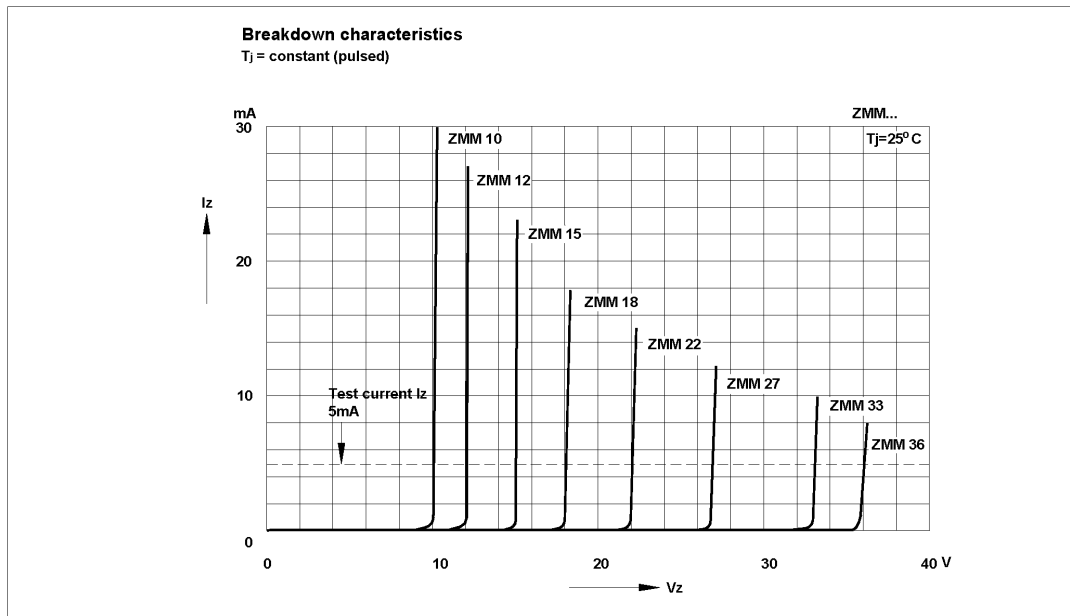
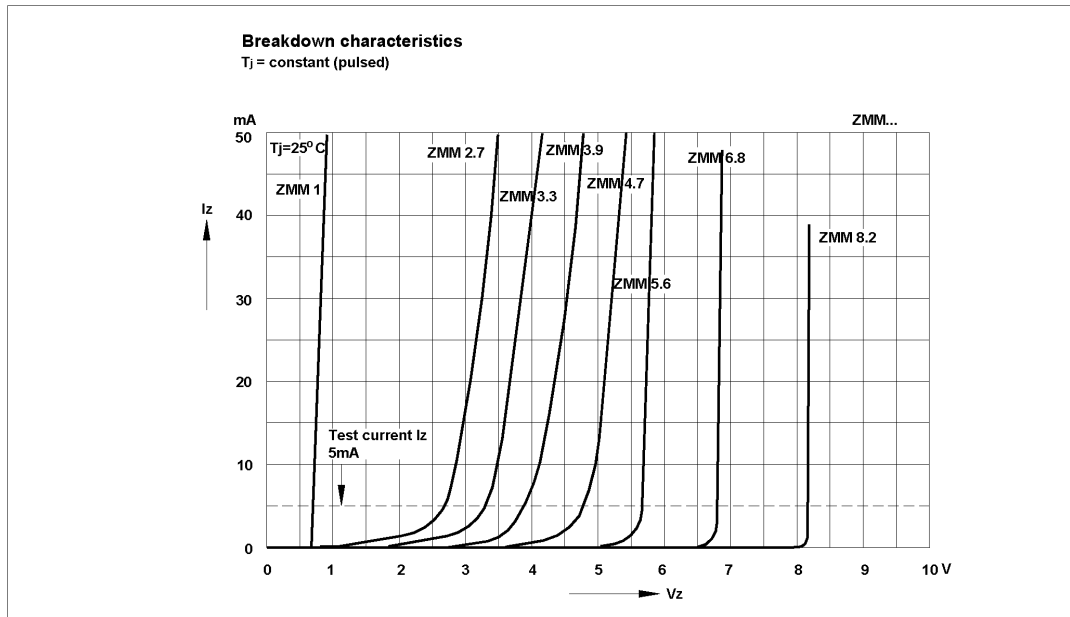
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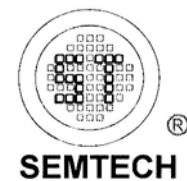
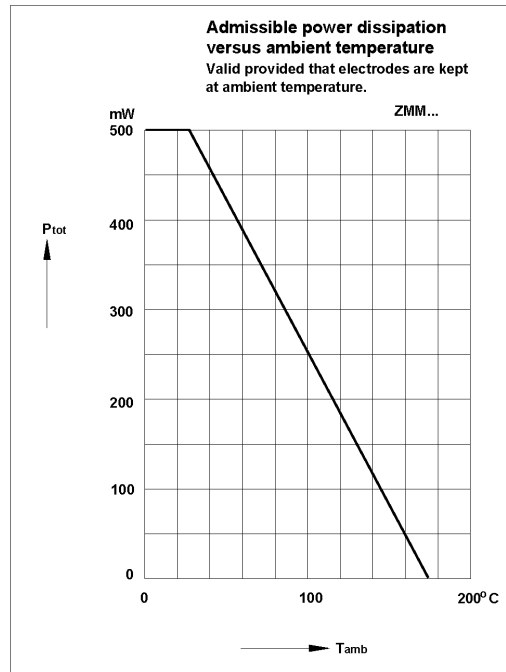
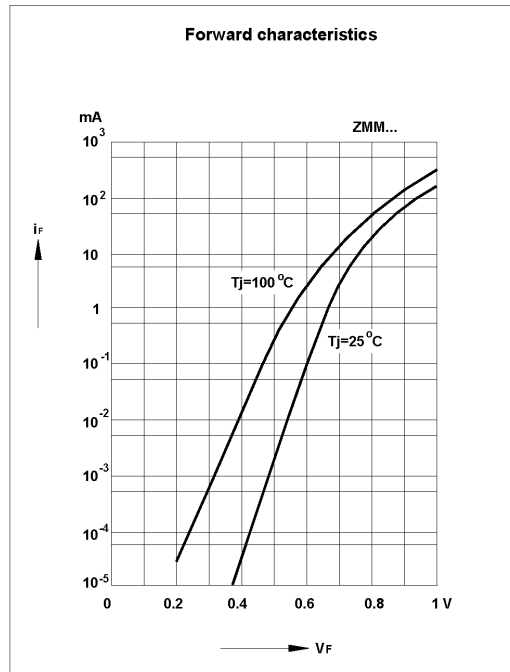
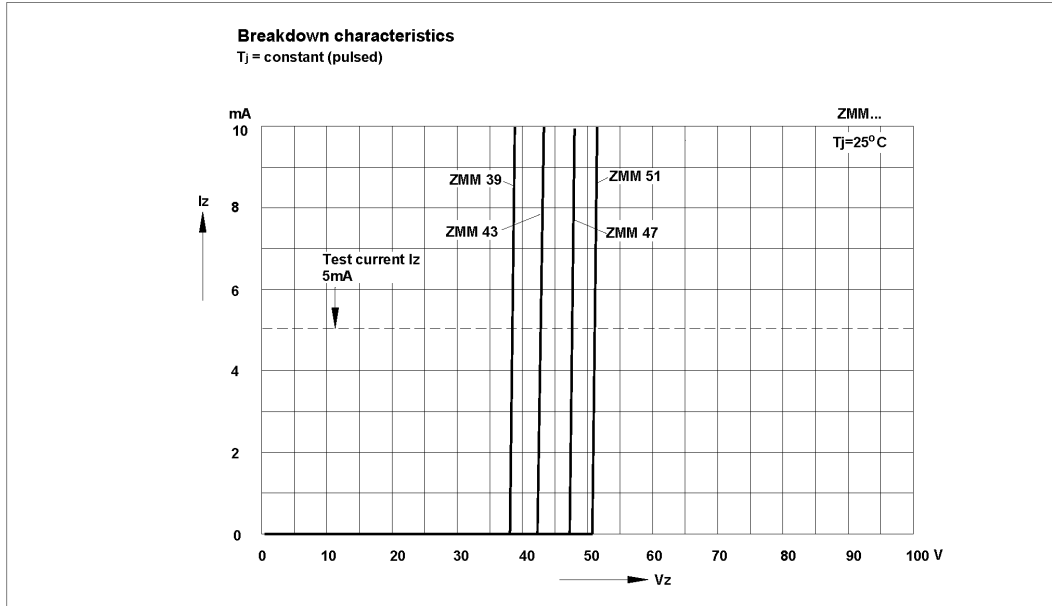
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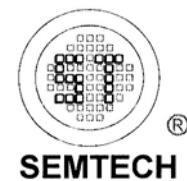
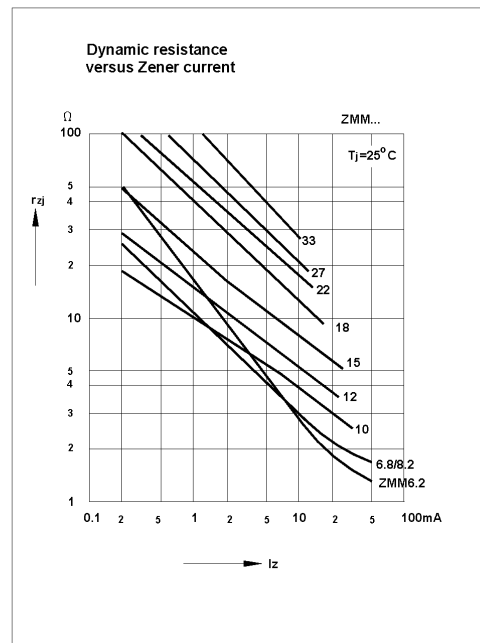
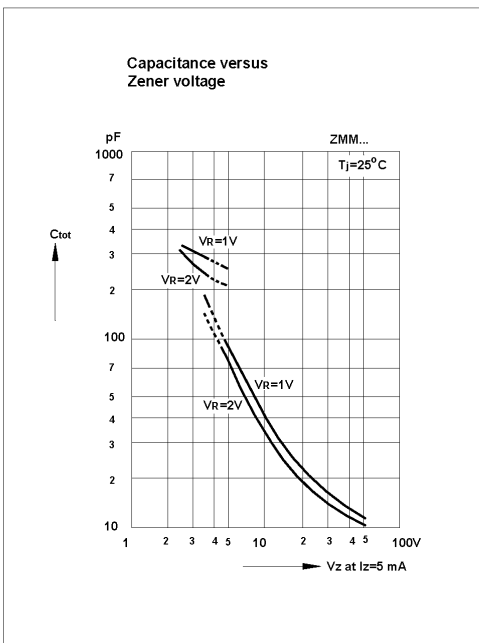
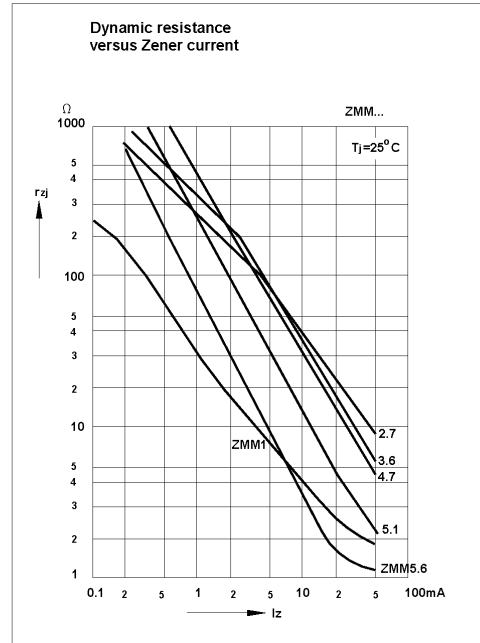
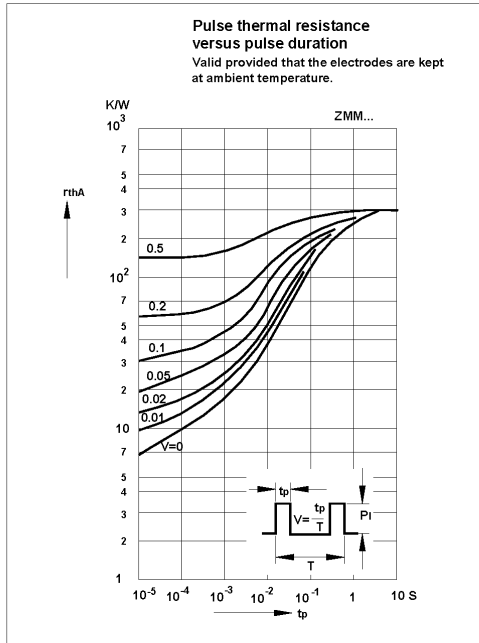
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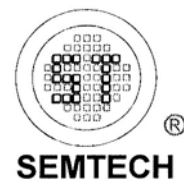
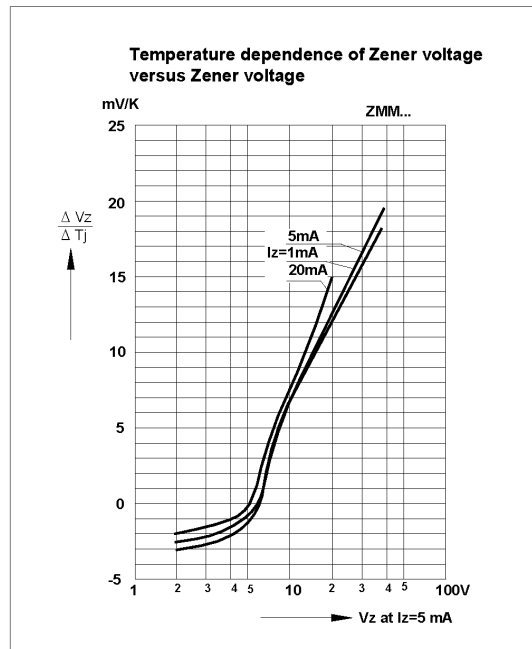
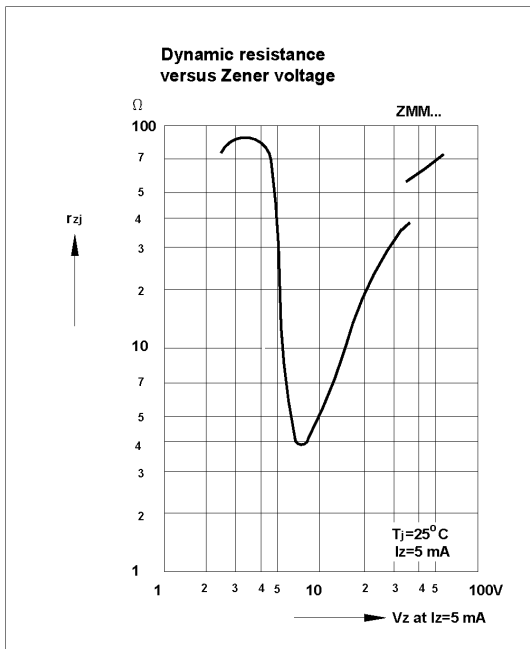
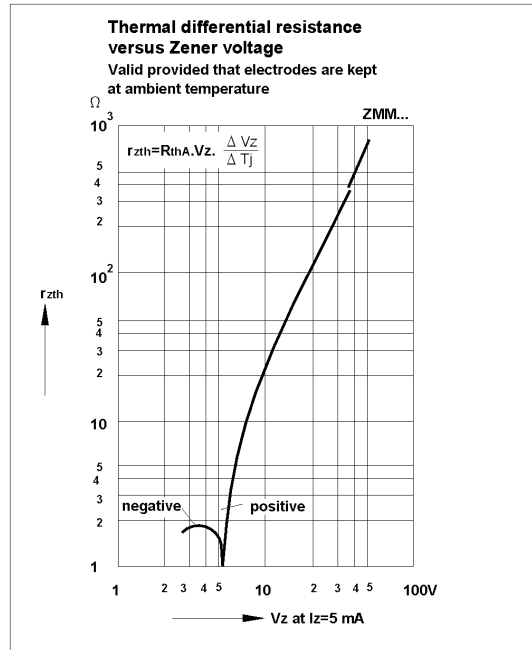
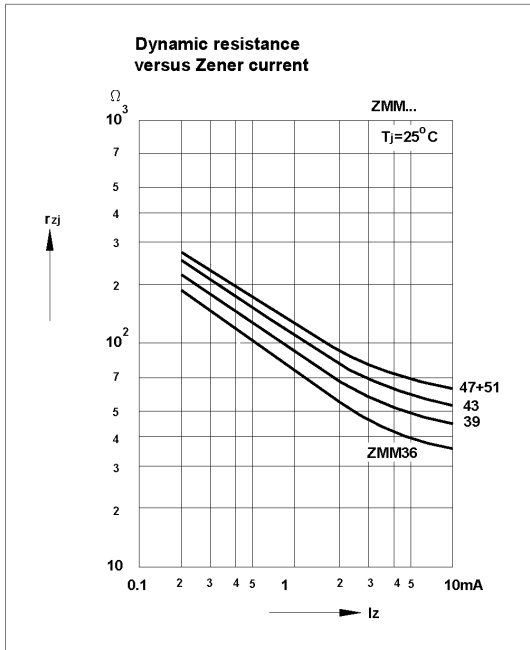
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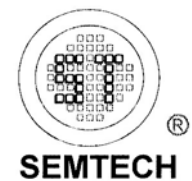
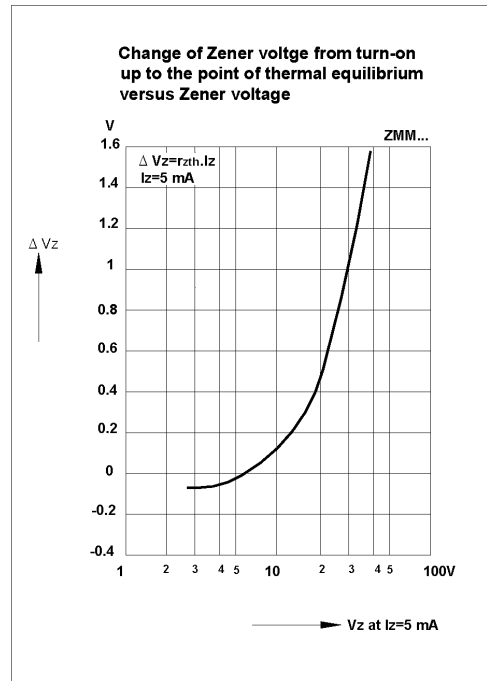
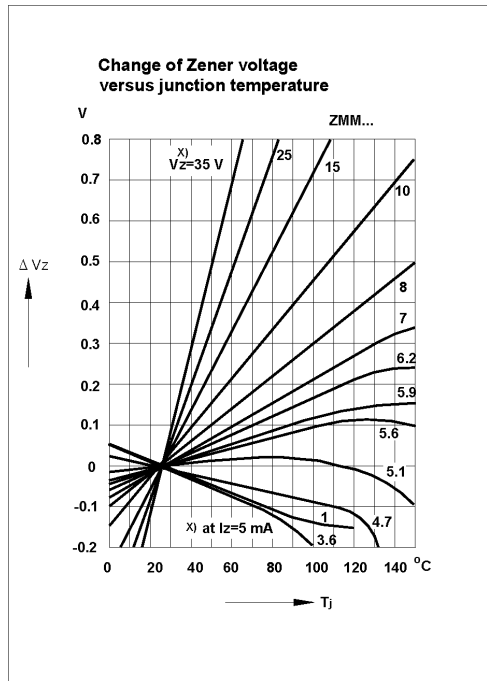
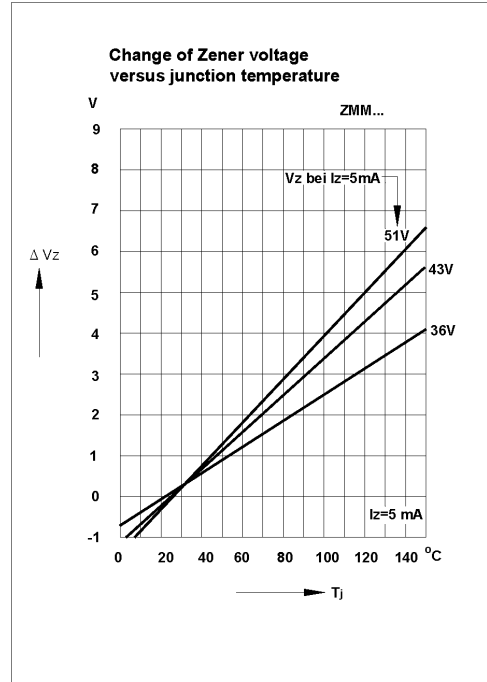
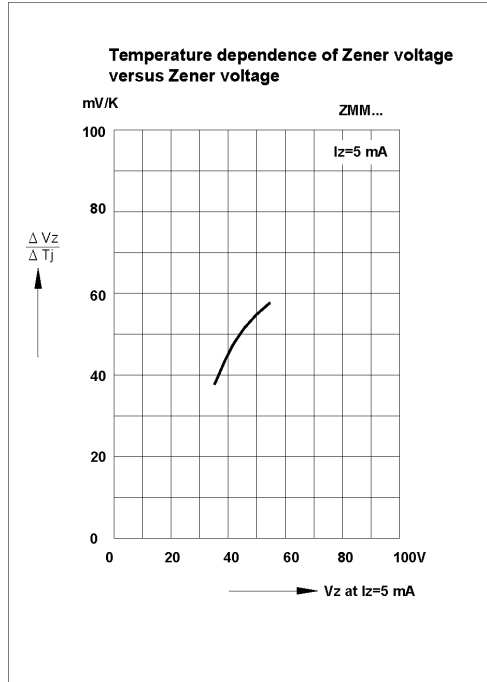
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