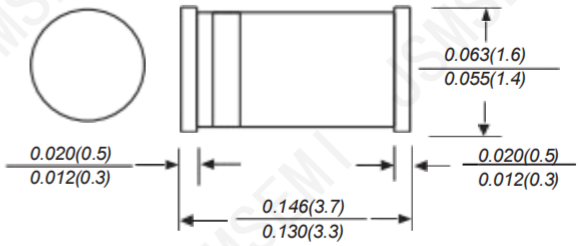
FEATURE

In MiniMELF case especially for automatic insertion.



LL-34

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

1) Valid provided that electrodes are kept at ambient temperature

Characteristics at Ta = 25℃

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	0.3 [1]	K/mW
Forward Voltage at I_F = 100 mA	V_F	1	V

1) Valid provided that electrodes are kept at ambient temperature

Electrical Characteristics@AT=25°Cunless otherwise specified

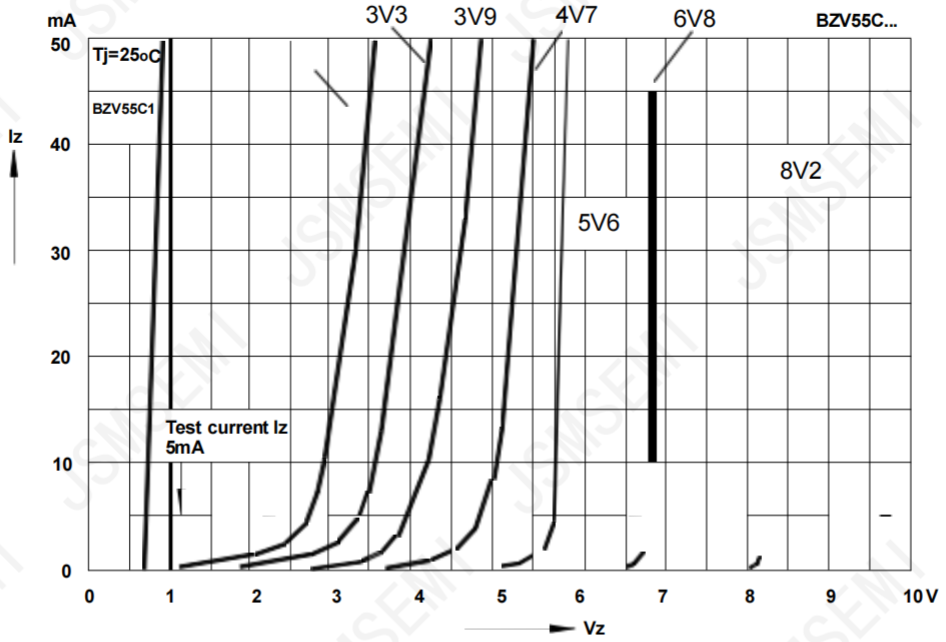
Type	Zener Voltage Range(1)			Dynamic Resistance			Reverse Leakage Curent			Temp.Coefficiertof Zener Voltage
	VZnom	VZ	at IZT	ZZT	ZZK	at IZK	Ta=25℃	Ta=125℃	at VR	
	(V)	(V)	(mA)	Max. (2)	Max(2)	(mA)	Max(μA)	Max. (μA)	(V)	TKvz(%K)
BZV55-C2V0,115	2	1.8...215	5	85	600	1	100	200	1	-0.09...-0.06
BZV55-C2V2,115	2.2	2.08...2.33	5	85	600	1	75	160	1	-0.09...-0.06
BZV55-C2V4,115	2.4	2.28...2.56	5	85	600	1	50	100	1	-0.09...-0.06
BZV55-C2V7,115	2.7	2.5...2.9	5	85	600	1	10	50	1	-0.09...-0.06
BZV55-C3V0,115	3	2.8....3.2	5	85	600	1	4	40	1	-0.08...-0.05
BZV55-C3V3,115	3.3	3.1..35	5	85	600	1	2	40	1	-0.08...-0.05
BZV55-C3V6,115	3.6	3.4...3.8	5	85	600	1	2	40	1	-0.08...-0.05
BZV55-C3V9,115	3.9	3.7...4.1	5	85	600	1	2	40	1	-0.08...-0.05
BZV55-C4V3,115	4.3	4...4.6	5	75	600	1	1	20	1	-0.06.0.03
BZV55-C4V7,115	4.7	4.4...5	5	60	600	1	0.5	10	1	-0.05...+0.02
BZV55-C5V1,115	5.1	4.8...5.4	5	35	550	1	0.1	2	1	-0.02+0.02
BZV55-C5V6,115	5.6	5.2...6	5	25	450	1	0.1	2	1	-0.05...+0.05
BZV55-C6V2,115	6.2	5.8...6.6	5	10	200	1	0.1	2	2	0.03...0.06
BZV55-C6V8,115	6.8	6.4...7.2	5	8	150	1	0.1	2	3	0.03...0.07
BZV55-C7V5,115	7.5	7.7...9	5	7	50	1	0.1	2	5	0.03...0.07
BZV55-C8V2,115	8.2	7.7..8.7	5	7	50	1	0.1	2	6.2	0.03...0.08
BZV55-C9VI,115	9.1	8.5...9.6	5	10	50	1	0.1	2	6.8	0.03...0.09
BZV55-C10,115	10	9.4...10.6	5	15	70	1	0.1	2	7.5	0.03.0.1
BZV55-C11,115	11	10.4...11.6	5	20	70	1	0.1	2	8.2	0.03...0.11
BZV55-C12,115	12	11.4...12.7	5	20	90	1	0.1	2	9.1	0.03...0.11
BZV55-C13,115	13	12.4...14.1	5	26	110	1	0.1	2	10	0.03...0.11
BZV55-C15,115	15	13.8...15.6	5	30	110	1	0.1	2	11	0.03...0.11
BZV55-C16,115	16	15.3...17.1	5	40	170	1	0.1	2	12	0.03...0.11
BZV55-C18,115	18	16.8.19.1	5	50	170	1	0.1	2	13	0.03...0.11
BZV55-C20,115	20	18.8...21.2	5	55	220	1	0.1	2	15	0.03..0.11
BZV55-C22,115	22	20.8...23.3	5	55	220	1	0.1	2	16	0.04...0.12
BZV55-C24,115	24	22.8...25.6	5	80	220	1	0.1	2	18	0.04...0.12
BZV55-C27,115	27	25.1...28.9	5	80	220	1	0.1	2	20	0.04...0.12
BZV55-C30,115	30	28...32	5	80	220	1	0.1	2	22	0.04...0.12
BZV55-C33,115	33	31...35	5	80	220	1	0.1	2	24	0.04...0.12
BZV55-C36,115	36	34...38	5	80	220	1	0.1	2	27	0.04...0.12
BZV55-C39,115	39	37...41	2.5	90	500	0.5	0.1	5	30	0.04...0.12
BZV55-C43,115	43	40...46	2.5	90	500	0.5	0.1	5	33	0.04...0.12
BZV55-C47,115	47	44...50	2.5	110	600	0.5	0.1	5	36	0.04...0.12
BZV55-C51,115	51	48...54	2.5	125	700	0.5	0.1	10	39	0.04...0.12
BZV55-C56,115	56	52...6	2.5	135	700	0.5	0.1	10	43	0.04...0.12
BZV55-C62,115	62	58...66	2.5	150	1000	0.5	0.1	10	47	0.04...0.12
BZV55-C68,115	68	64...72	2.5	200	1000	0.5	0.1	10	51	0.04...0.12
BZV55-C75,115	75	70...79	2.5	250	1000	0.5	0.1	10	56	0.04...0.12

Notes: 1. Tested with pulses t_p = 20 ms.

2. Valid provided that electrodes are kept at ambient temperature.

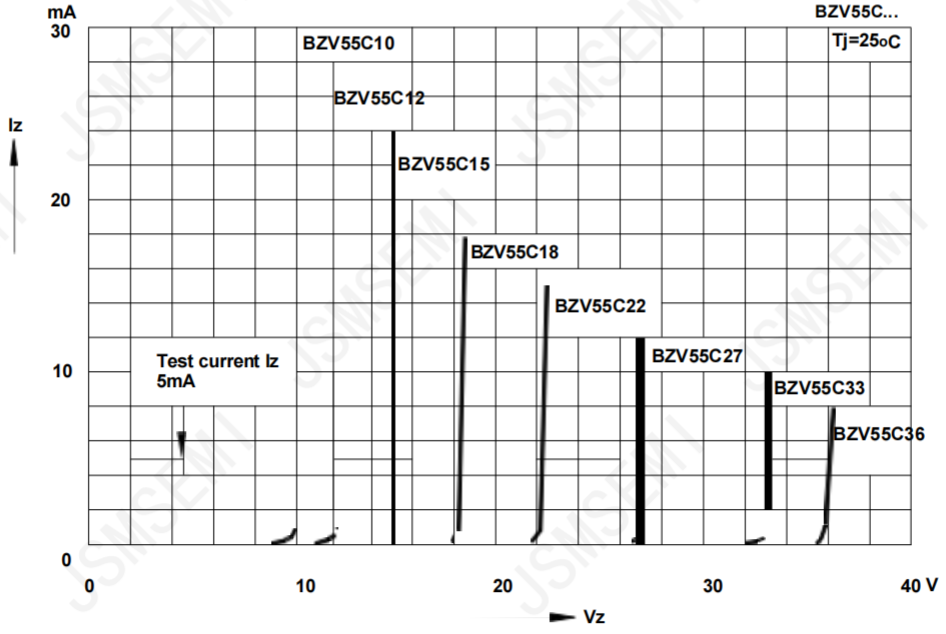
Breakdown characteristics

T_j = constant (pulsed)

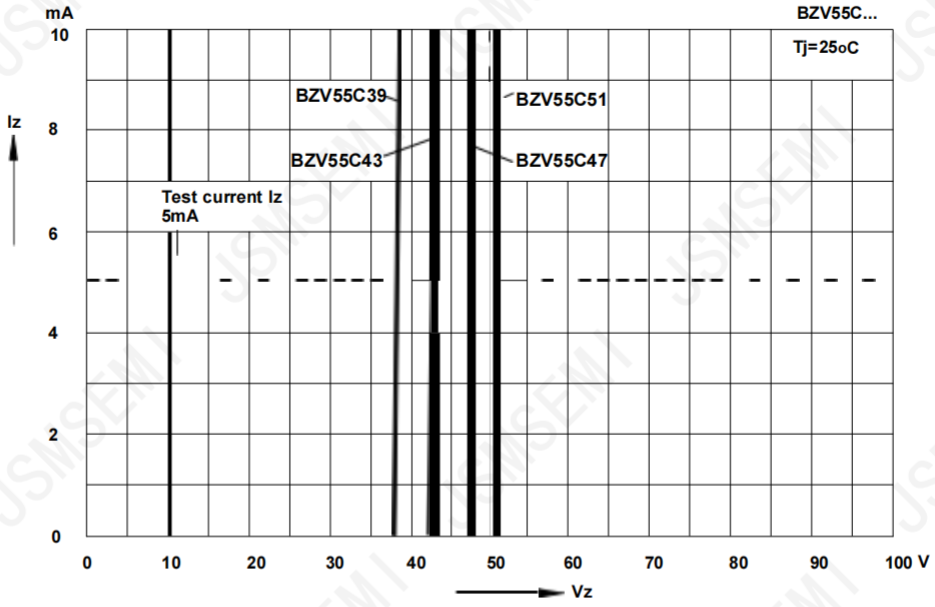


Breakdown characteristics

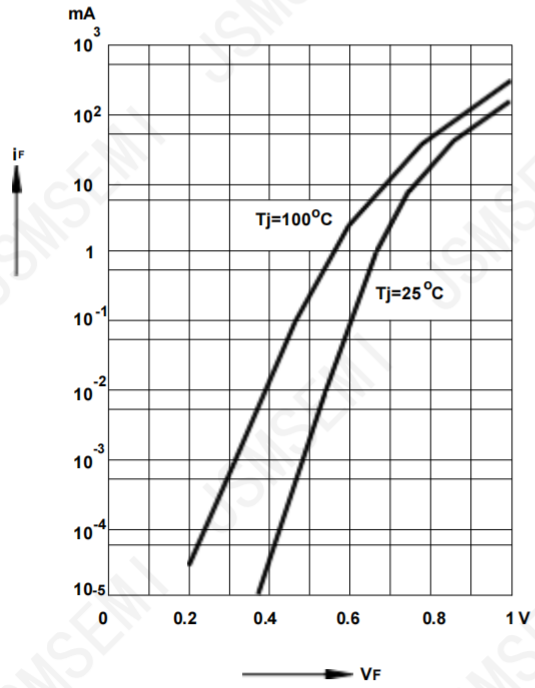
T_j = constant (pulsed)



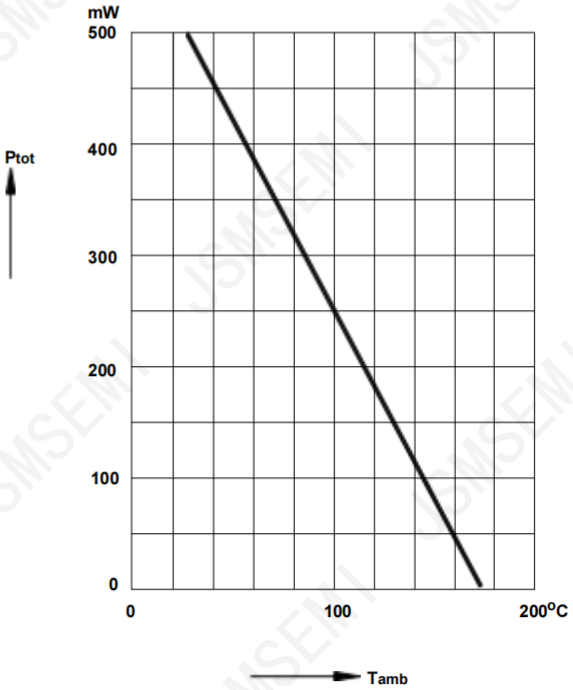
Breakdown characteristics
T_j = constant (pulsed)



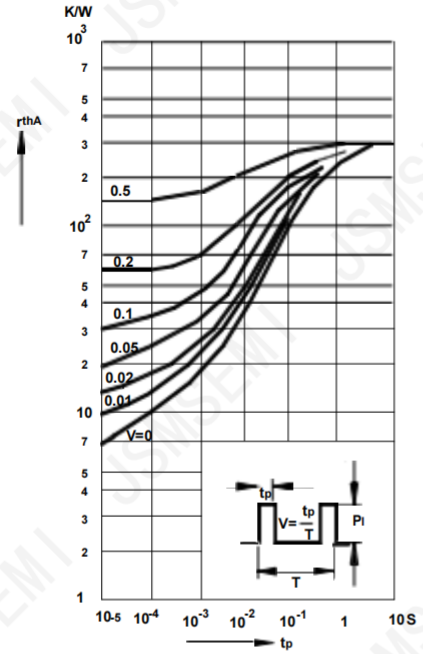
Forward characteristics



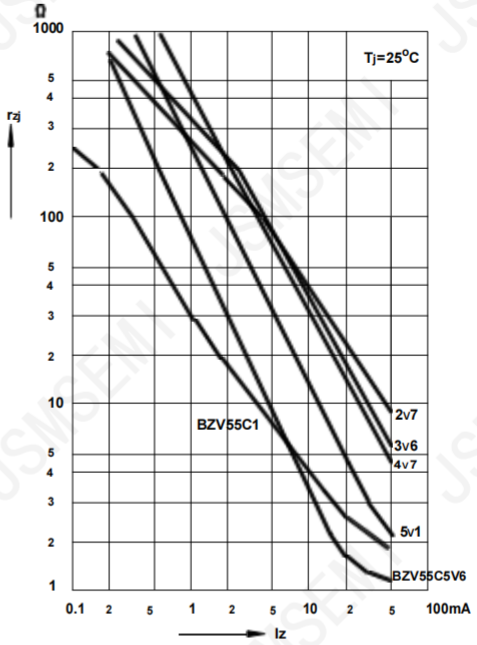
Admissible power dissipation versus ambient temperature
Valid provided that electrodes are kept at ambient temperature.



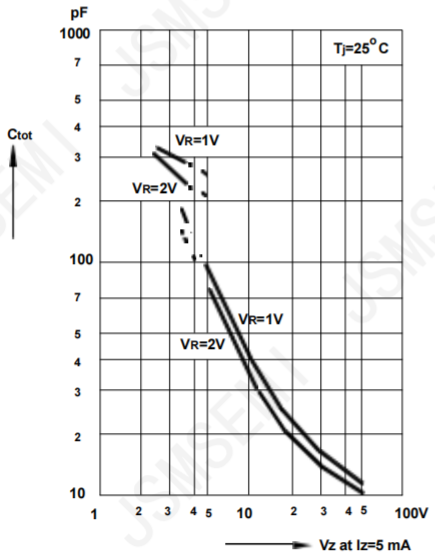
Pulse thermal resistance versus pulse duration
Valid provided that the electrodes are kept at ambient temperature.



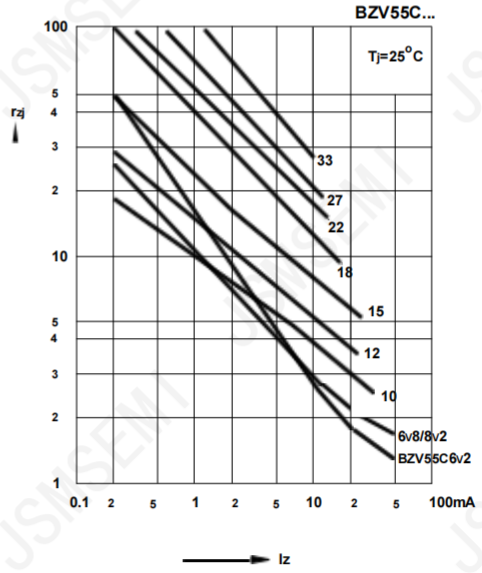
Dynamic resistance versus Zener current



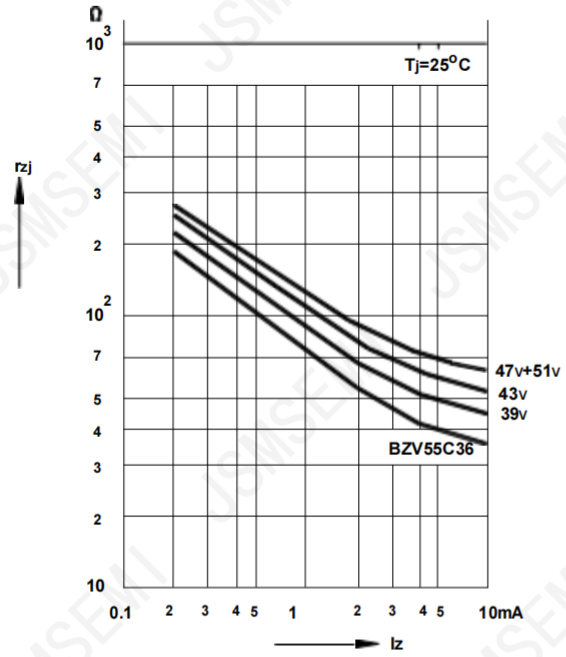
Capacitance versus Zener voltage



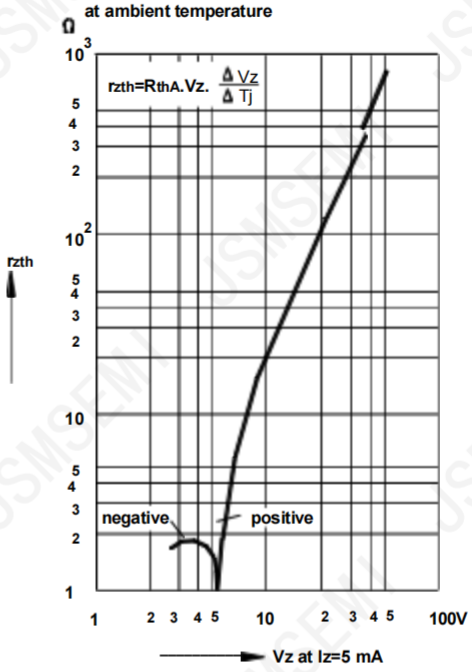
Dynamic resistance versus Zener current



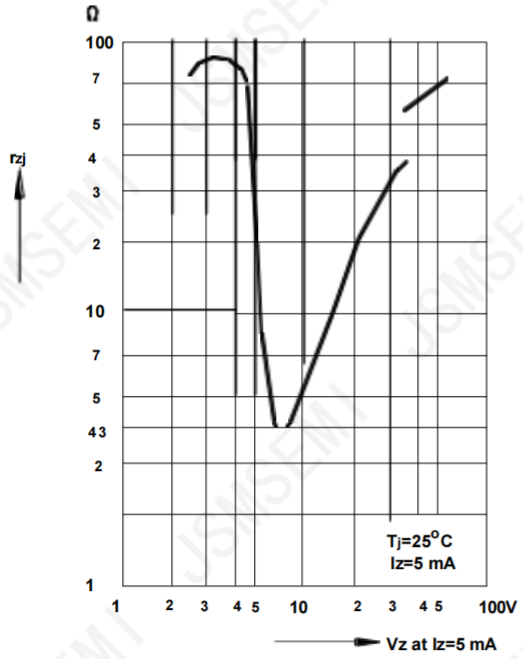
Dynamic resistance versus Zener current



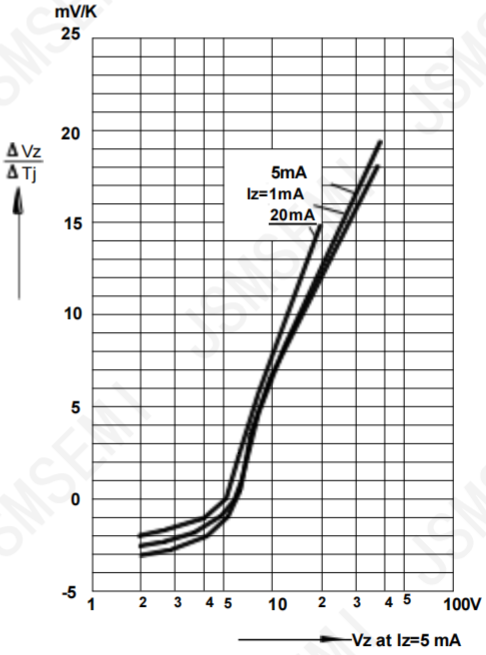
Thermal differential resistance versus Zener voltage
Valid provided that electrodes are kept at ambient temperature



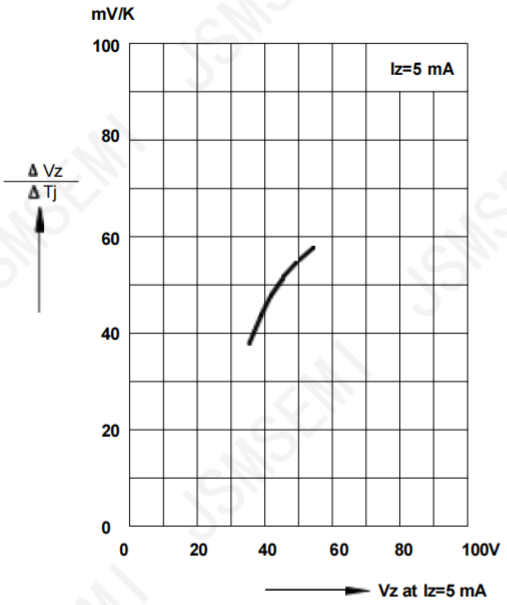
Dynamic resistance versus Zener voltage



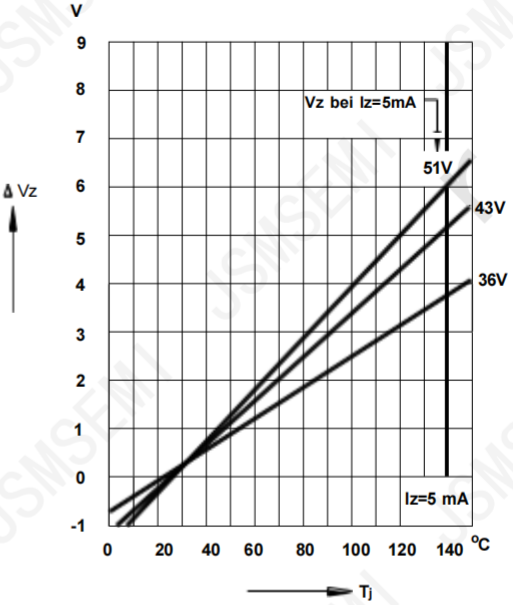
Temperature dependence of Zener voltage versus Zener voltage



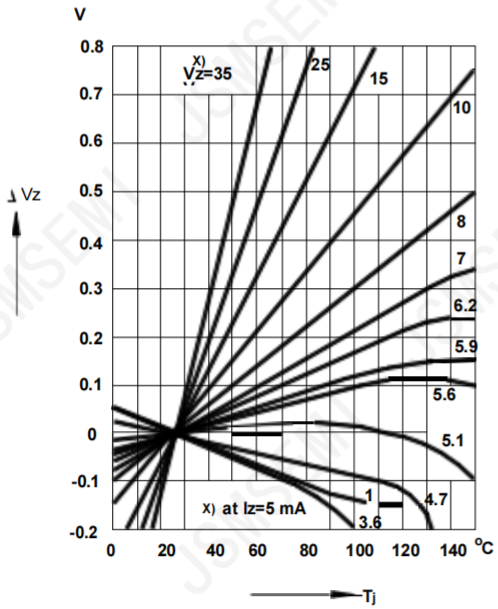
Temperature dependence of Zener voltage versus Zener voltage



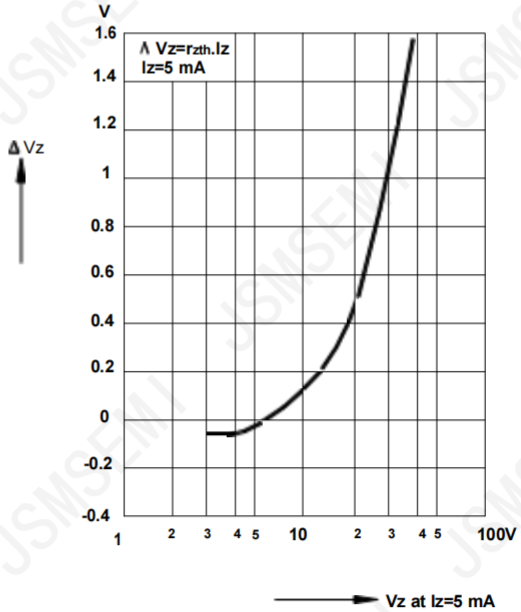
Change of Zener voltage versus junction temperature



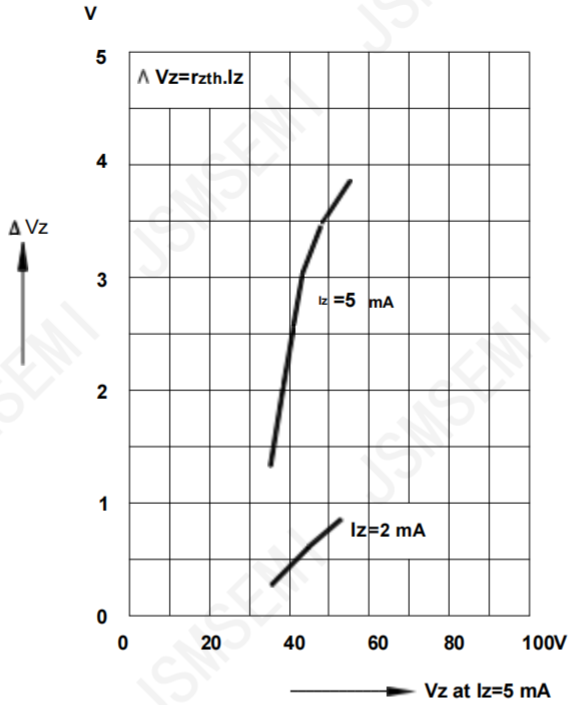
Change of Zener voltage versus junction temperature



Change of Zener voltge from turn-on up to the point of thermal equilibrium versus Zener voltage



Change of Zener voltge from turn-on up to the point of thermal equilibrium versus Zener voltage



Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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