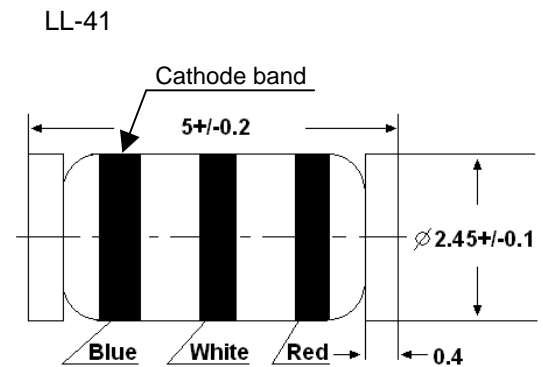


ZMY 1...ZMY 100(1W)

SILICON PLANAR POWER ZENER DIODES

for use in stabilizing and clipping circuits with high power rating. The Zener voltages are graded according to the international E 24 standard. Smaller voltage tolerances are upon request.

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



Glass case MELF
Dimensions in mm

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

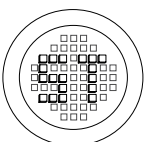
	Symbol	Value	Unit
Zener Current see table "Characteristics"			
Power Dissipation	P_{tot}	1 ¹⁾	W
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +175	$^\circ\text{C}$

¹⁾ Valid provided that electrodes are kept at ambient temperature.

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

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	170 ¹⁾	K/W

¹⁾ Valid provided that electrodes are kept at ambient temperature.



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РАДИОТЕХ

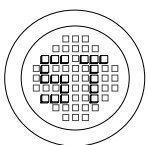
Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

ZMY 1...ZMY 100(1W)

TYPE	Zener voltage ³⁾	Dynamic Resistance	Temp. coeff. of Zener volt.	Test current	Maximum reverse leakage current		Admissible Zener current ¹⁾
	at I_{ZT} V_Z V	at I_{ZT} $f = 1\text{kHz}$ $r_{zj} \Omega$	at I_{ZT} $;\nu_Z 10^{-4}/K$	I_{ZT} mA	$I_R \mu A$	at V_R V	at $T_{amb} = 25^\circ C$ I_Z mA
ZMY1 ³⁾	0.65...0.75	6.5(<8)	-26...-23	5	-	-	406
ZMY3.0	2.8...3.2	5(<8)	-8...+1	100	-	-	260
ZMY3.3	3.1...3.5	5(<8)	-8...+1	100	150	1	240
ZMY3.6	3.4...3.8	5(<8)	-8...+1	100	100	1	220
ZMY3.9	3.7...4.1	4(<7)	-7...+2	100	100	1	203
ZMY4.3	4.0...4.6	4(<7)	-7...+3	100	50	1	182
ZMY4.7	4.4...5.0	4(<7)	-7...+4	100	10	1	165
ZMY5.1	4.8...5.4	2(<5)	-6...+5	100	10	1	150
ZMY5.6	5.2...6.0	1(<2)	-3...+5	100	0.5	2	135
ZMY6.2	5.8...6.6	1(<2)	-1...+6	100	0.5	3	128
ZMY6.8	6.4...7.2	1(<2)	0...+7	100	0.5	4	110
ZMY7.5	7.0...7.9	1(<2)	0...+7	100	0.5	5	100
ZMY8.2	7.7...8.7	1(<2)	+3...+8	100	0.5	6	89
ZMY9.1	8.5...9.6	2(<4)	+3...+8	50	0.5	7	82
ZMY10	9.4...10.6	2(<4)	+5...+9	50	0.5	7.6	74
ZMY11	10.4...11.6	3(<7)	+5...+10	50	0.5	8.4	66
ZMY12	11.4...12.7	3(<7)	+5...+10	50	0.5	9.1	60
ZMY13	12.4...14.1	4(<9)	+5...+10	50	0.5	9.9	55
ZMY15	13.8...15.8	4(<9)	+5...+10	50	0.5	11.4	49
ZMY16	15.3...17.1	5(<10)	+7...+11	25	0.5	12.2	44
ZMY18	16.8...19.1	5(<11)	+7...+11	25	0.5	13.7	40
ZMY20	18.8...21.2	6(<12)	+7...+11	25	0.5	15.2	36
ZMY22	20.8...23.3	7(<13)	+7...+11	25	0.5	16.7	34
ZMY24	22.8...25.6	8(<14)	+7...+12	25	0.5	18.2	29
ZMY27	25.1...28.9	9(<15)	+7...+12	25	0.5	20.6	27
ZMY30	28...32	10(<20)	+7...+12	25	0.5	22.8	25
ZMY33	31...35	11(<20)	+7...+12	25	0.5	25.1	22
ZMY36	34...38	25(<60)	+7...+12	10	0.5	27.4	20
ZMY39	37...41	30(<60)	+8...+12	10	0.5	29.7	18
ZMY43	40...46	35(<80)	+8...+13	10	0.5	32.7	17
ZMY47	44...50	40(<80)	+8...+13	10	0.5	35.8	15
ZMY51	48...54	45(<100)	+8...+13	10	0.5	38.8	14
ZMY56	52...60	50(<100)	+8...+13	10	0.5	42.6	13
ZMY62	58...66	60(<130)	+8...+13	10	0.5	47.1	11
ZMY68	64...72	65(<130)	+8...+13	10	0.5	51.7	10
ZMY75	70...79	70(<160)	+8...+13	10	0.5	56.0	9
ZMY82	77...88	80(<160)	+8...+13	10	0.5	62.2	8
ZMY91	85...96	120(<250)	+9...+13	5	0.5	69.2	7.5
ZMY100	94...106	130(<250)	+9...+13	5	0.5	76	7

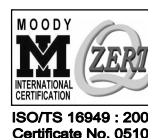
- 1) Valid provided that electrodes are kept at ambient temperature.
- 2) Tested with pulses $t_p = 20$ ms
- 3) The ZMY 1 is a silicon diode operated in forward direction. Hence, the index of all characteristics and maximum ratings should be "F" instead of "Z". Connect the cathode terminal to the negative pole.

For devices in glass case MELF with higher Zener voltage but same power dissipation see types ZMU100...ZMU180.



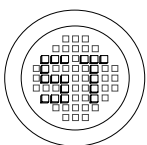
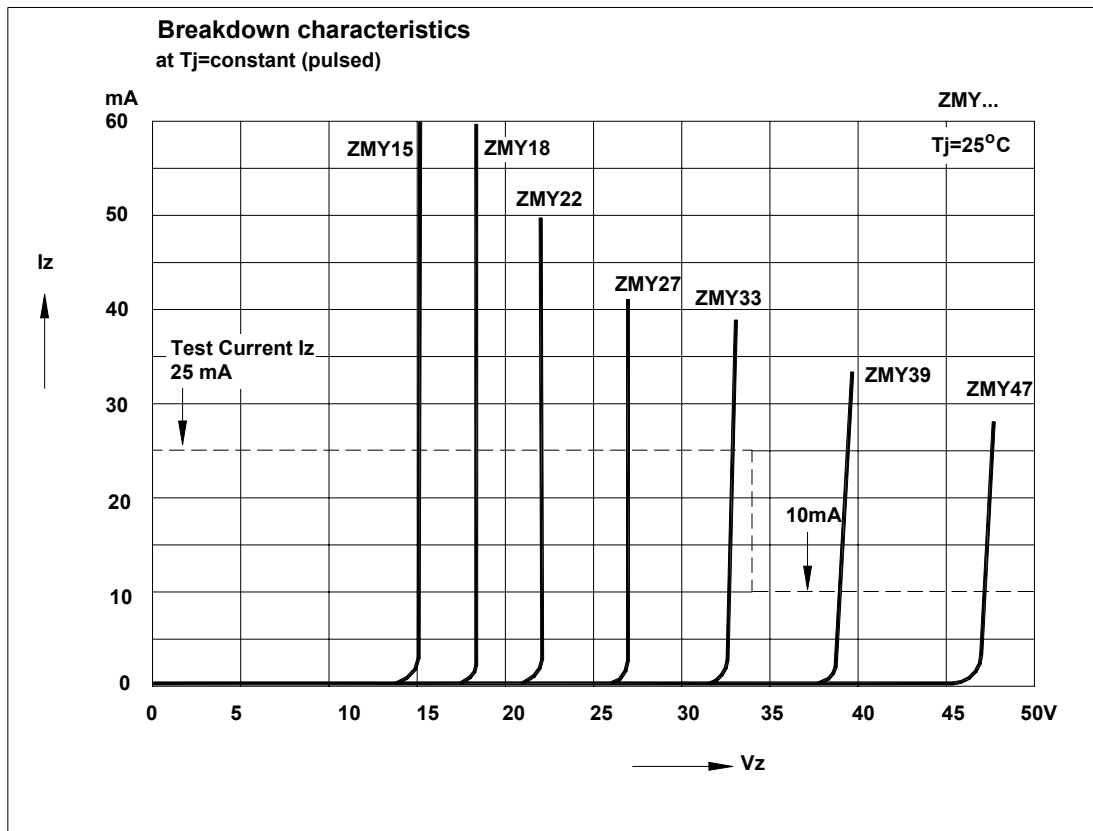
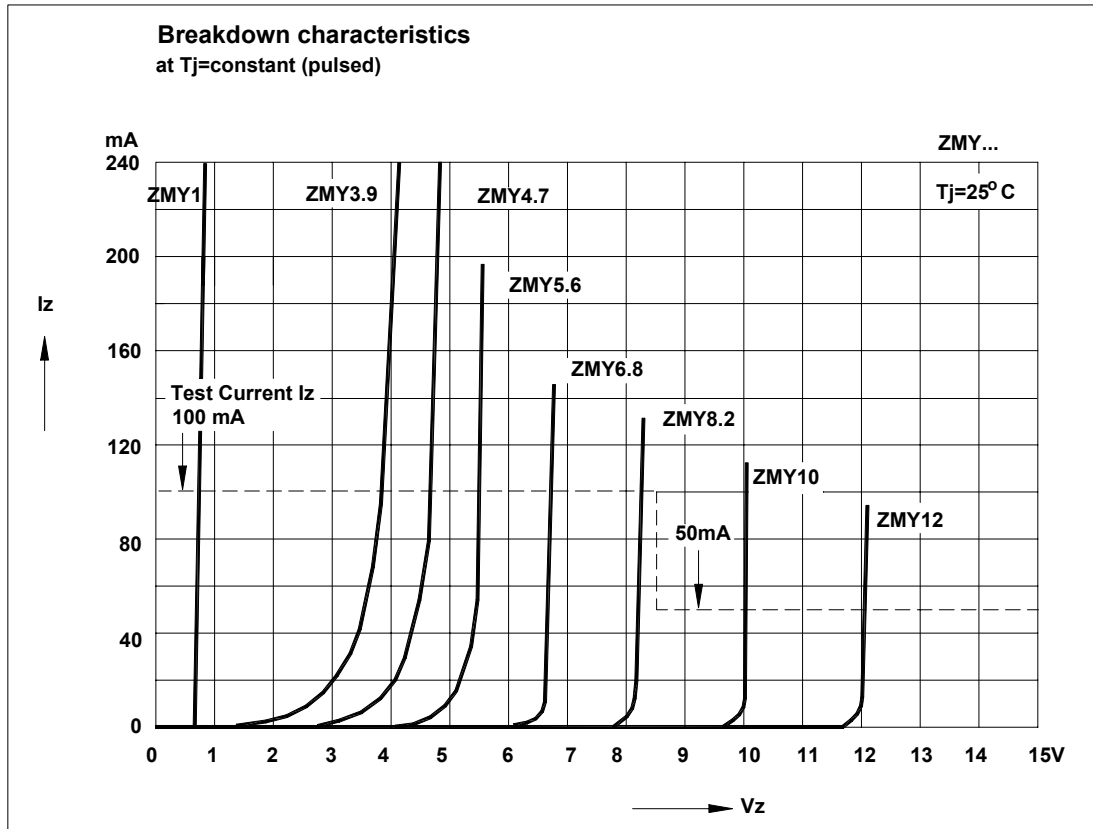
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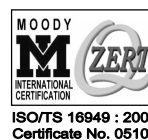
ZMY 1...ZMY 100(1W)



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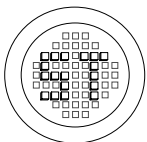
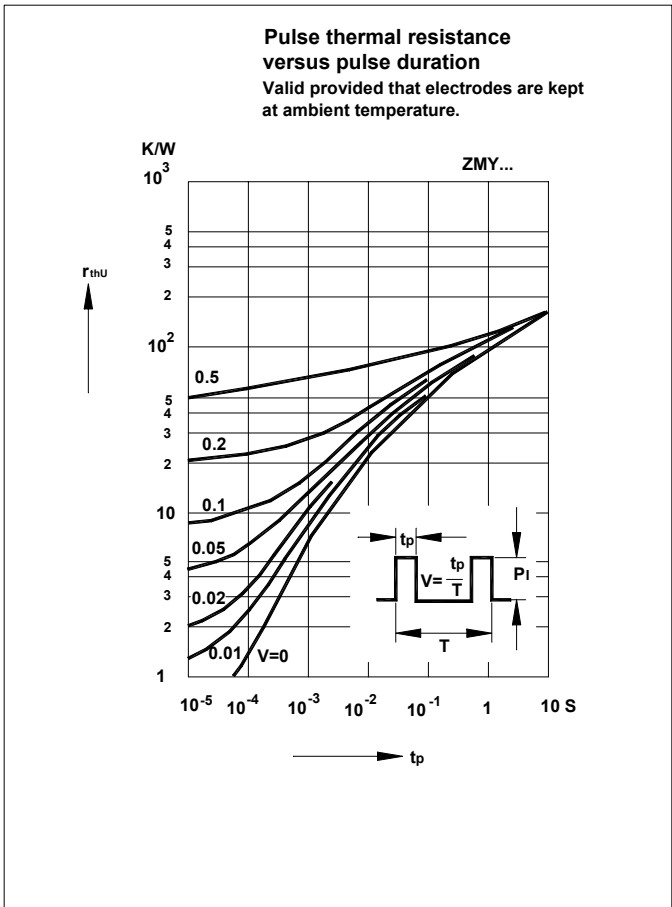
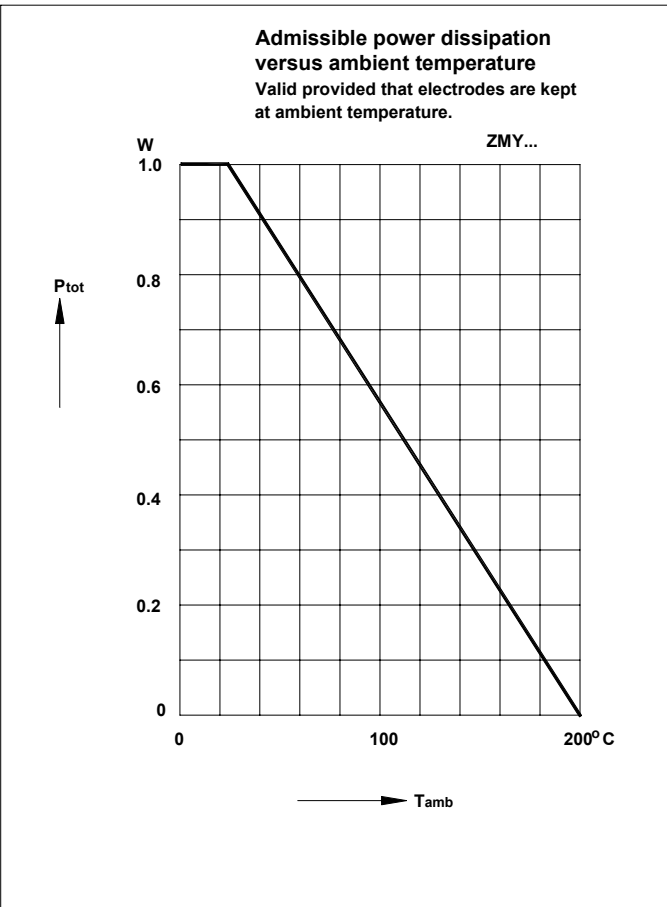
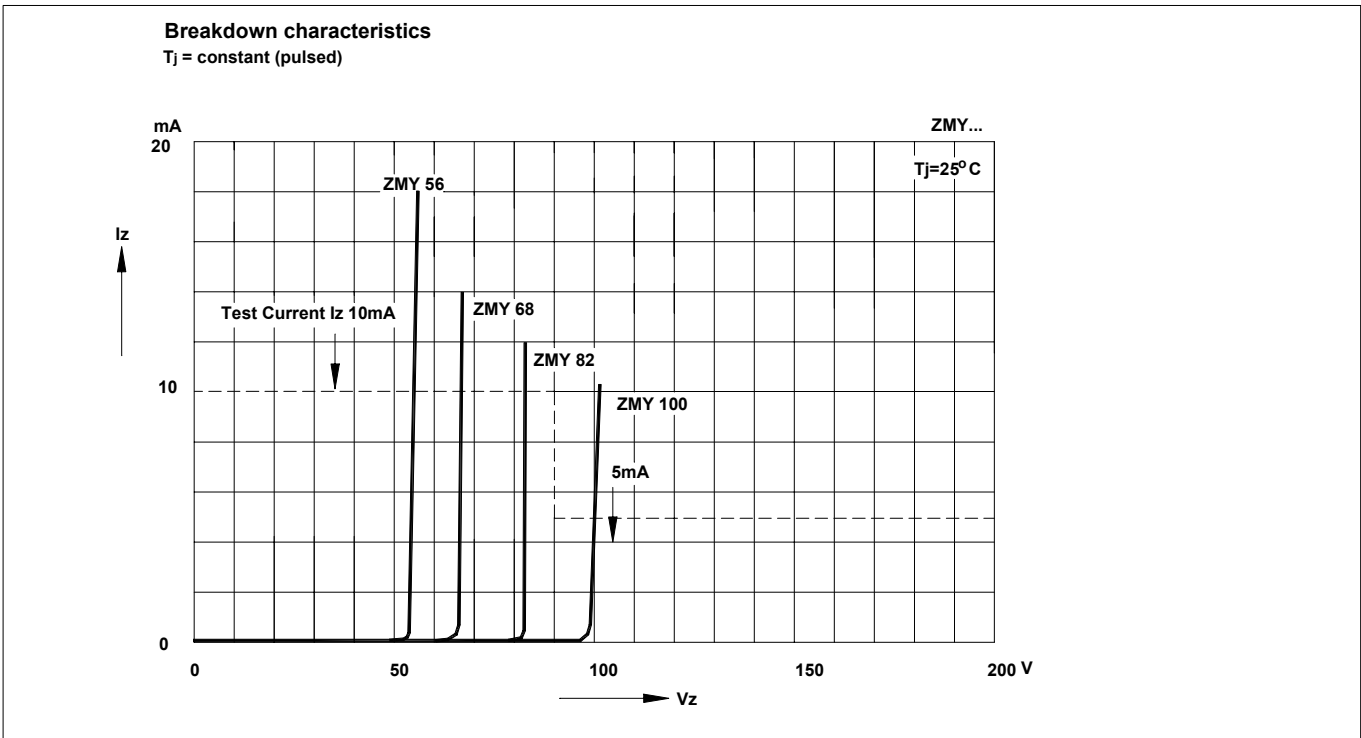
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ZMY 1...ZMY 100(1W)



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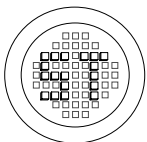
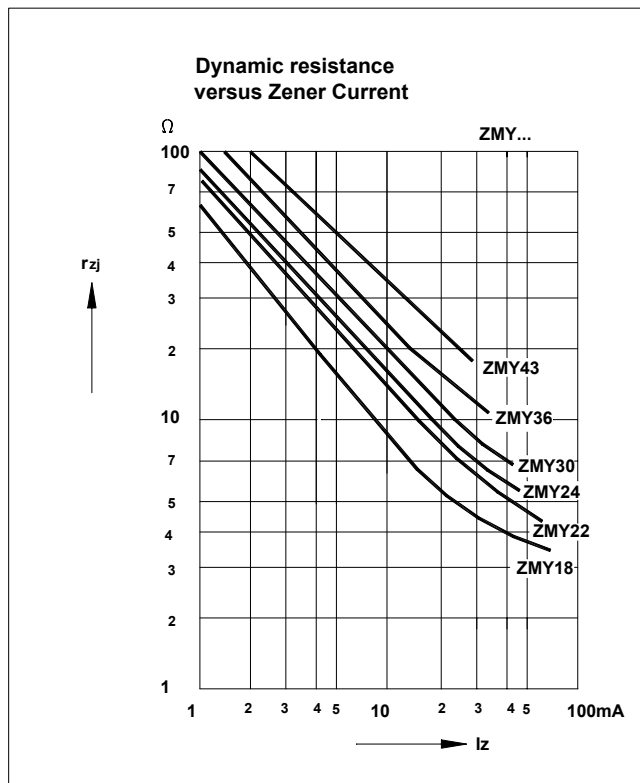
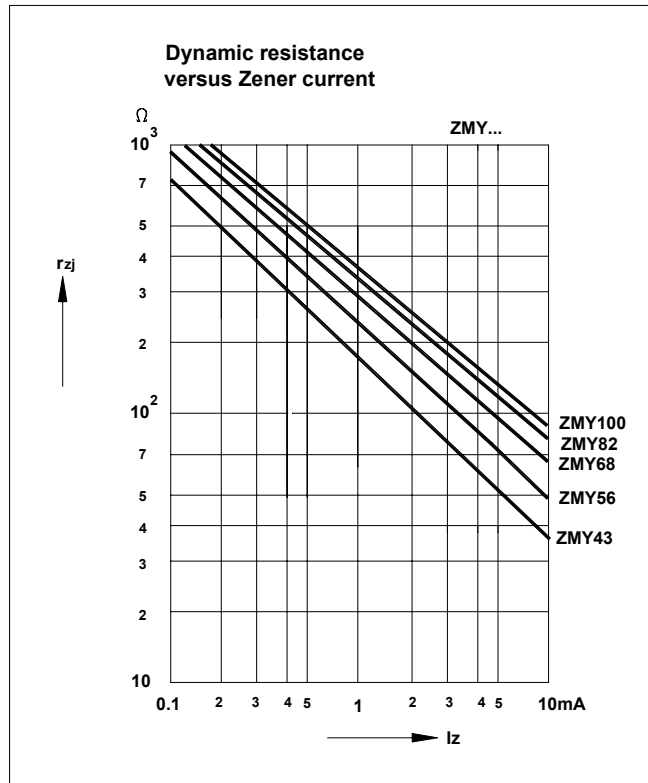
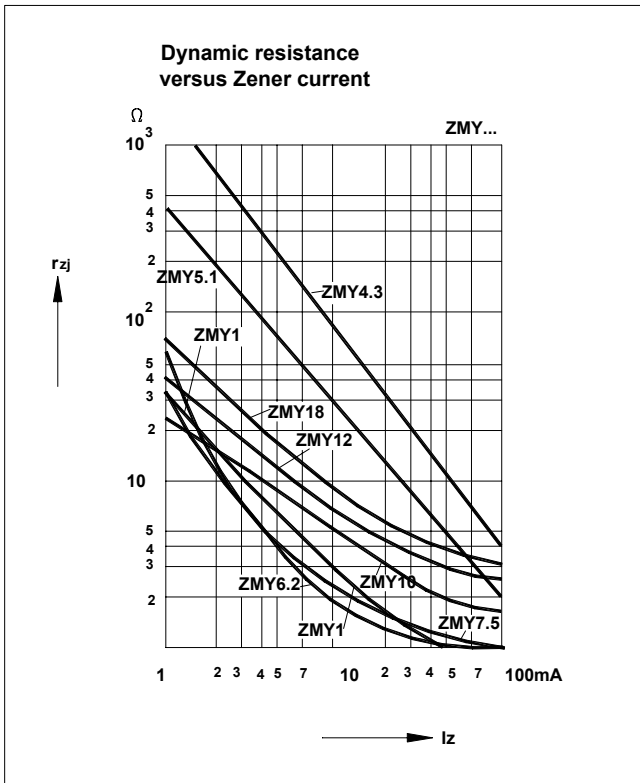
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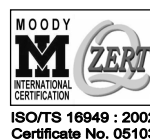
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