



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.

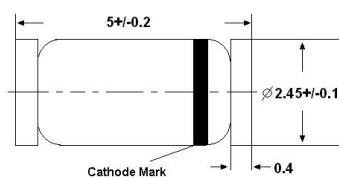
TEL: 852-2790 0314 FAX: 852-2790 0206

ZMY1...ZMY100

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.

LL-41



Glass case MELF

Dimensions in mm

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

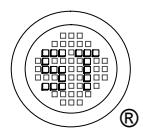
Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	1 ¹⁾	W
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_s	- 55 to + 175	$^\circ\text{C}$

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

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

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

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



Dated :04/09/2008



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

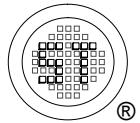
Type	Zener Voltage ²⁾		Maximum Dynamic Resistance		Maximum Reverse Leakage Current		Admissible Zener Current ¹⁾ I_Z (mA)
	V_Z (V)	at I_{ZT} (mA)	Z_{ZT} (Ω)	at I_{ZT} (mA)	I_R (μA)	at V_R (V)	
ZMY1 ³⁾	0.65...0.75	5	8	5	-	-	406
ZMY3V0	2.8...3.2	100	8	100	-	-	260
ZMY3V3	3.1...3.5	100	8	100	150	1	240
ZMY3V6	3.4...3.8	100	8	100	100	1	220
ZMY3V9	3.7...4.1	100	7	100	100	1	203
ZMY4V3	4...4.6	100	7	100	50	1	182
ZMY4V7	4.4...5	100	7	100	10	1	165
ZMY5V1	4.8...5.4	100	5	100	10	1	150
ZMY5V6	5.2...6	100	2	100	0.5	2	135
ZMY6V2	5.8...6.6	100	2	100	0.5	3	128
ZMY6V8	6.4...7.2	100	2	100	0.5	4	110
ZMY7V5	7...7.9	100	2	100	0.5	5	100
ZMY8V2	7.7...8.7	100	2	100	0.5	6	89
ZMY9V1	8.5...9.6	50	4	50	0.5	7	82
ZMY10	9.4...10.6	50	4	50	0.5	7.6	74
ZMY11	10.4...11.6	50	7	50	0.5	8.4	66
ZMY12	11.4...12.7	50	7	50	0.5	9.1	60
ZMY13	12.4...14.1	50	9	50	0.5	9.9	55
ZMY15	13.8...15.8	50	9	50	0.5	11.4	49
ZMY16	15.3...17.1	25	10	25	0.5	12.2	44
ZMY18	16.8...19.1	25	11	25	0.5	13.7	40
ZMY20	18.8...21.2	25	12	25	0.5	15.2	36
ZMY22	20.8...23.3	25	13	25	0.5	16.7	34
ZMY24	22.8...25.6	25	14	25	0.5	18.2	29
ZMY27	25.1...28.9	25	15	25	0.5	20.6	27
ZMY30	28...32	25	20	25	0.5	22.8	25
ZMY33	31...35	25	20	25	0.5	25.1	22
ZMY36	34...38	10	60	10	0.5	27.4	20
ZMY39	37...41	10	60	10	0.5	29.7	18
ZMY43	40...46	10	80	10	0.5	32.7	17
ZMY47	44...50	10	80	10	0.5	35.8	15
ZMY51	48...54	10	100	10	0.5	38.8	14
ZMY56	52...60	10	100	10	0.5	42.6	13
ZMY62	58...66	10	130	10	0.5	47.1	11
ZMY68	64...72	10	130	10	0.5	51.7	10
ZMY75	70...79	10	160	10	0.5	56.0	9
ZMY82	77...88	10	160	10	0.5	62.2	8
ZMY91	85...96	5	250	5	0.5	69.2	7.5
ZMY100	94...106	5	250	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 ZMY1 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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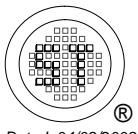
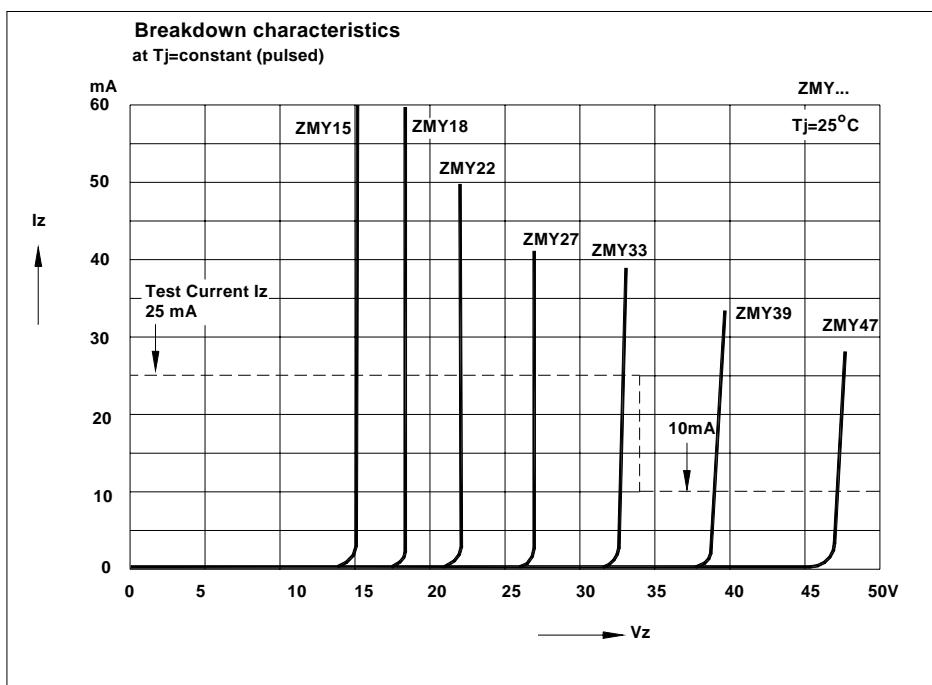
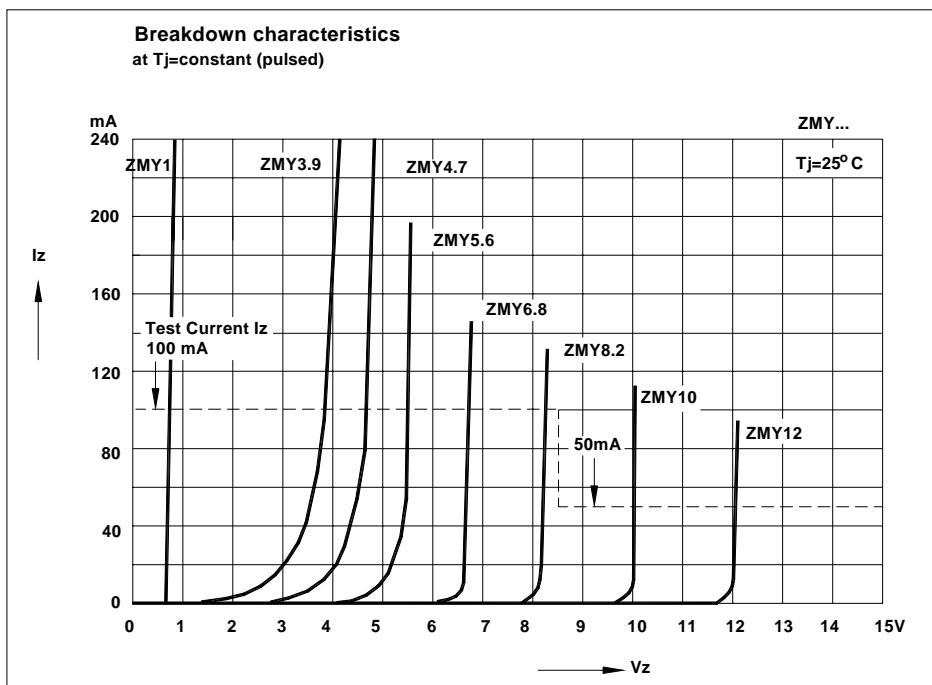
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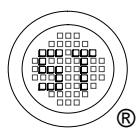
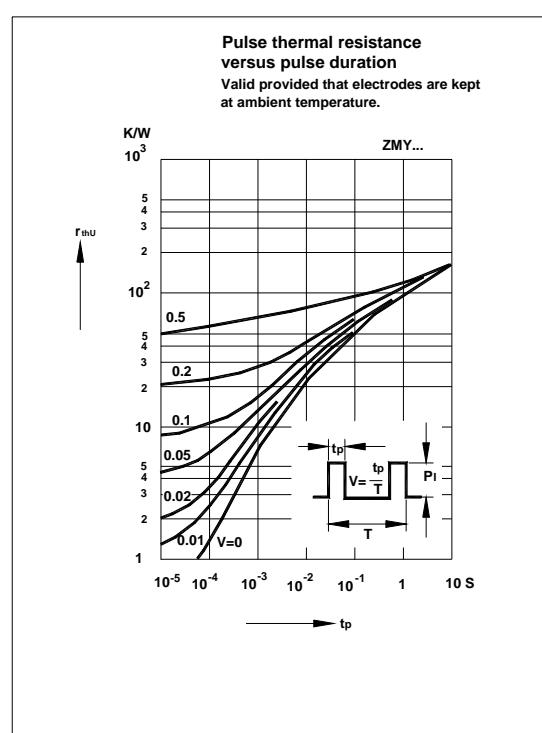
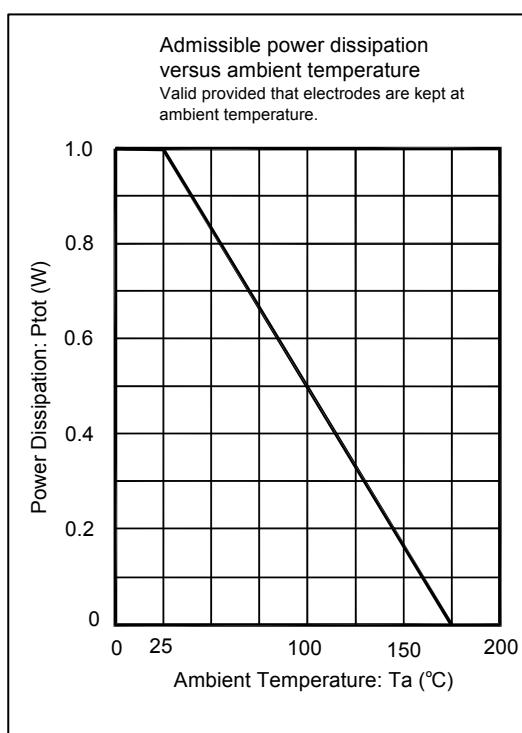
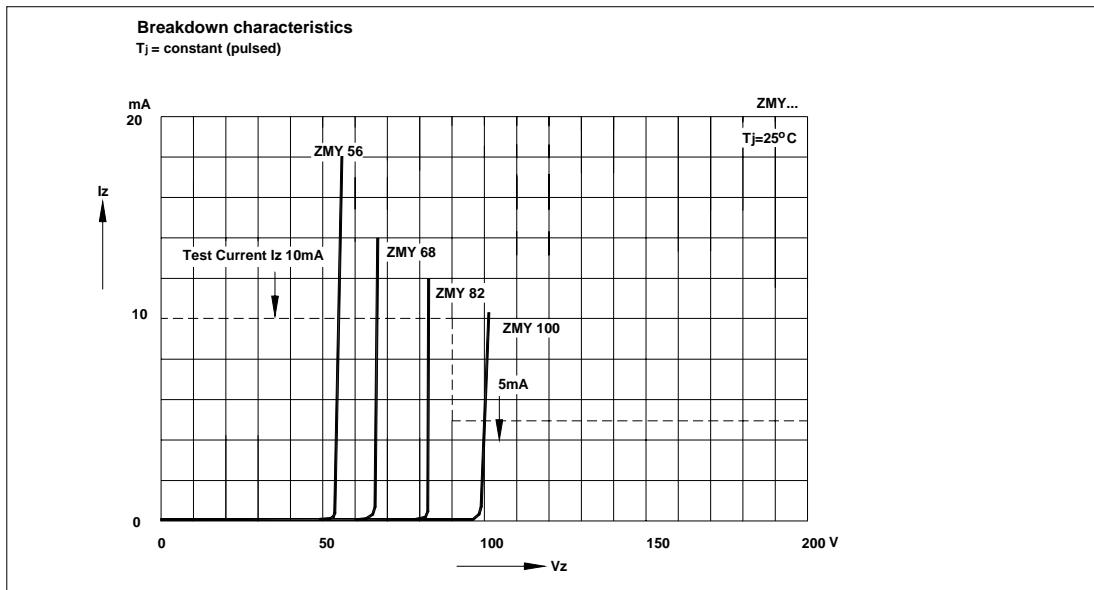
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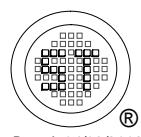
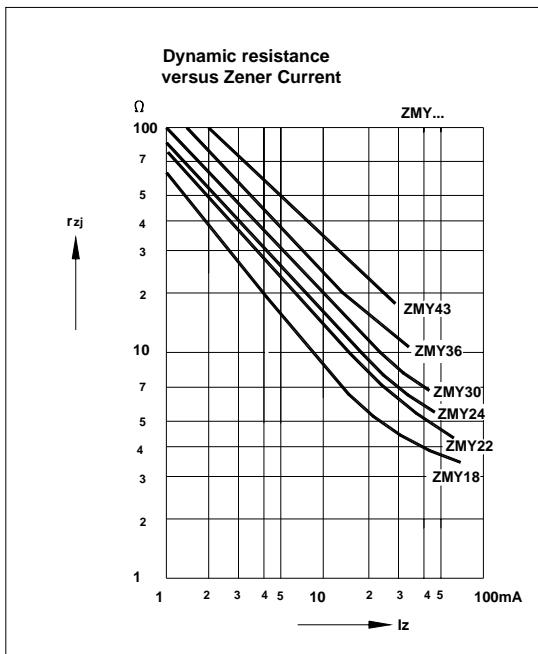
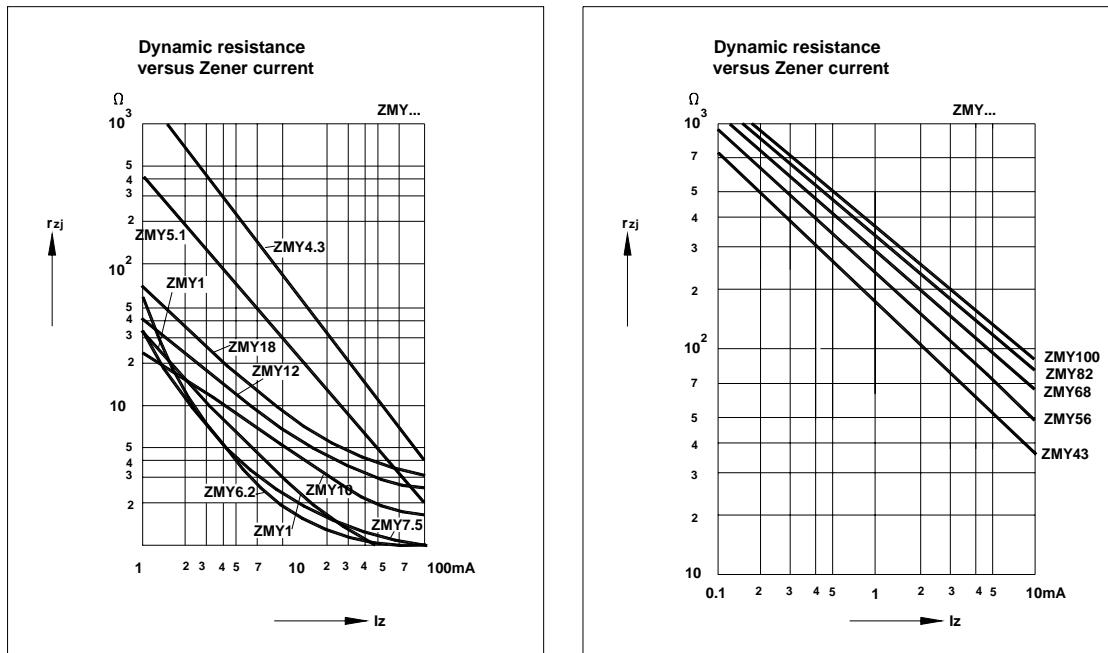
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