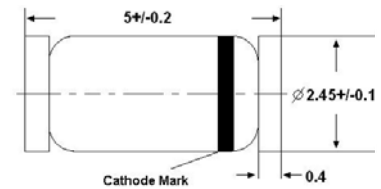


ZMY1...ZMY75

Silicon Epitaxial Planar Power Zener Diodes

For use in stabilizing and clipping circuits with high power rating. The Zener voltages are graded according to the international E24 standard. Smaller voltage tolerances are upon request.

LL-41



Glass case MELF
Dimensions in mm

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

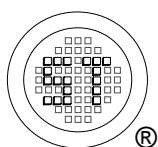
Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	1 ¹⁾	W
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 175	$^\circ\text{C}$

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

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

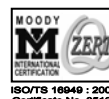
Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	170 ¹⁾	K/W
Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.2	V

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



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 10/09/2009

ZMY1...ZMY75

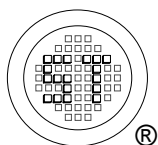
Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Type	Zener Voltage ²⁾		Dynamic Resistance		Reverse Current		Admissible Zener Current ¹⁾	
	V_{ZT}		Z_{ZT}	at I_{ZT}	I_R	at V_R		
	Min. (V)	Max. (V)	(mA)	Max. (Ω)	(mA)	Max. (μA)	(V)	I_{ZM} (mA)
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

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

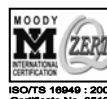
²⁾ Tested with pulses $t_p = 20\text{ ms}$

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.



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 18949:2002
Certificate No. 08103

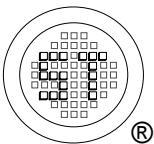
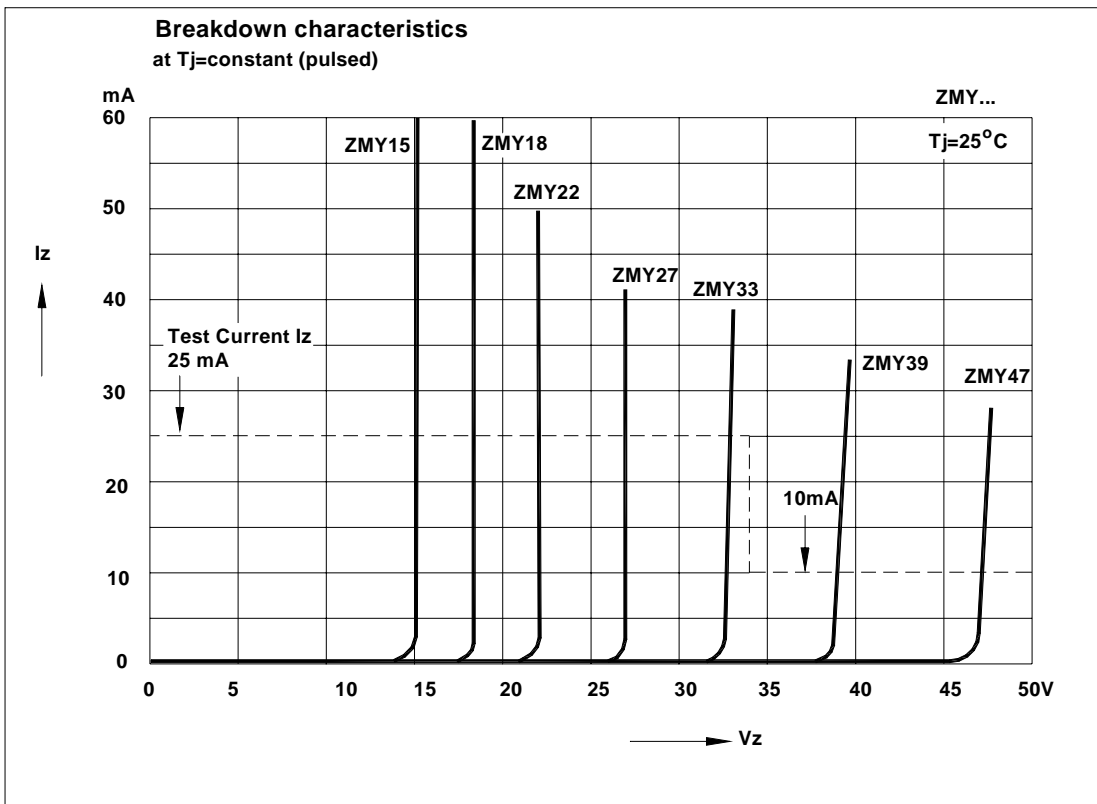
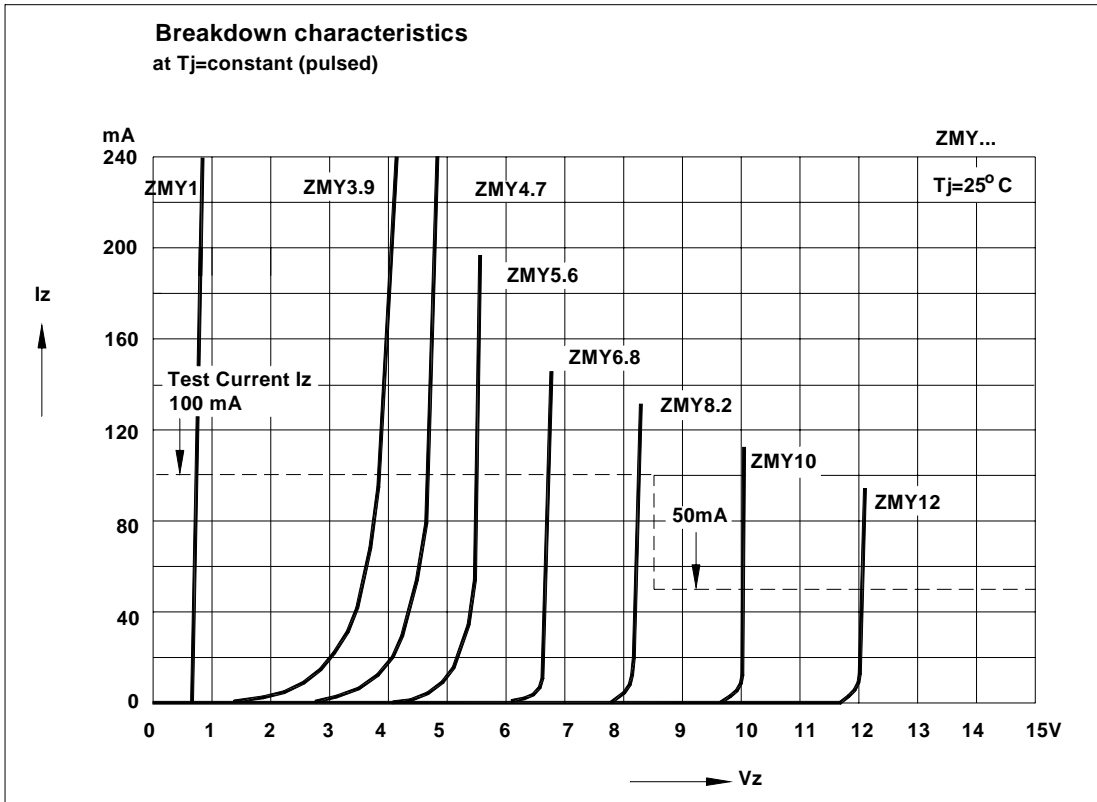
ISO 14001:2004
Certificate No. 7116

ISO 9001:2008
Certificate No. 0808098

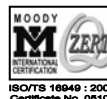
BS-OHSAS 18001:2007
Certificate No. 7116

IECQ QC 080000
Certificate No. 7116

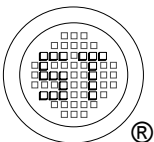
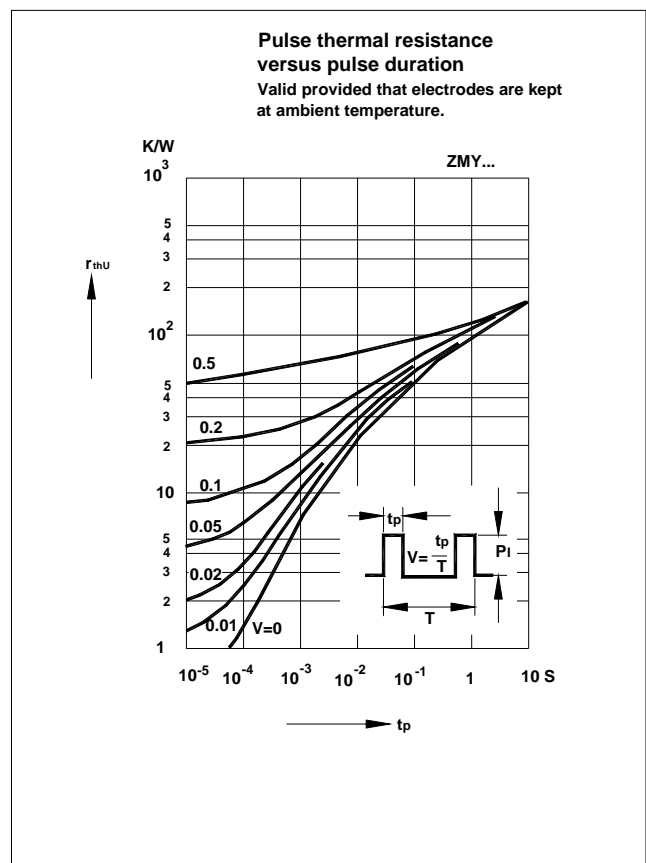
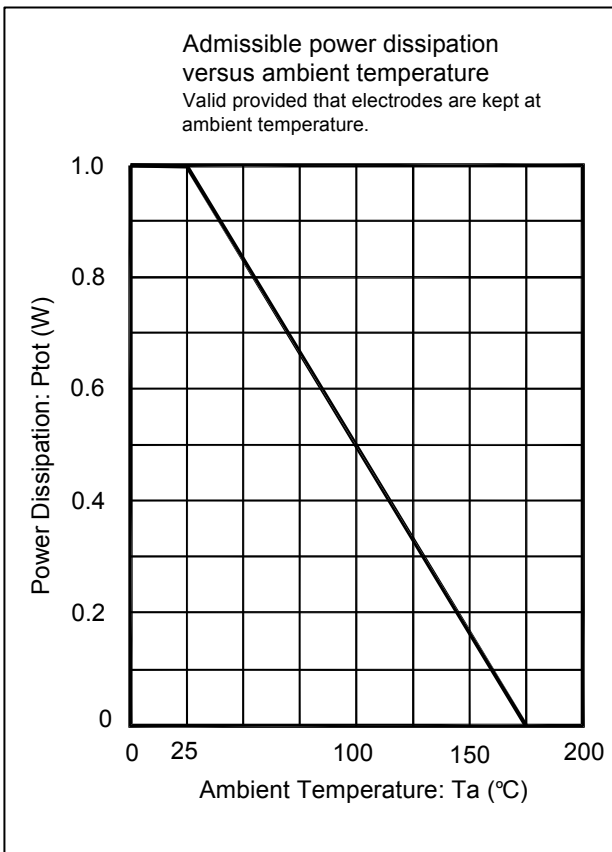
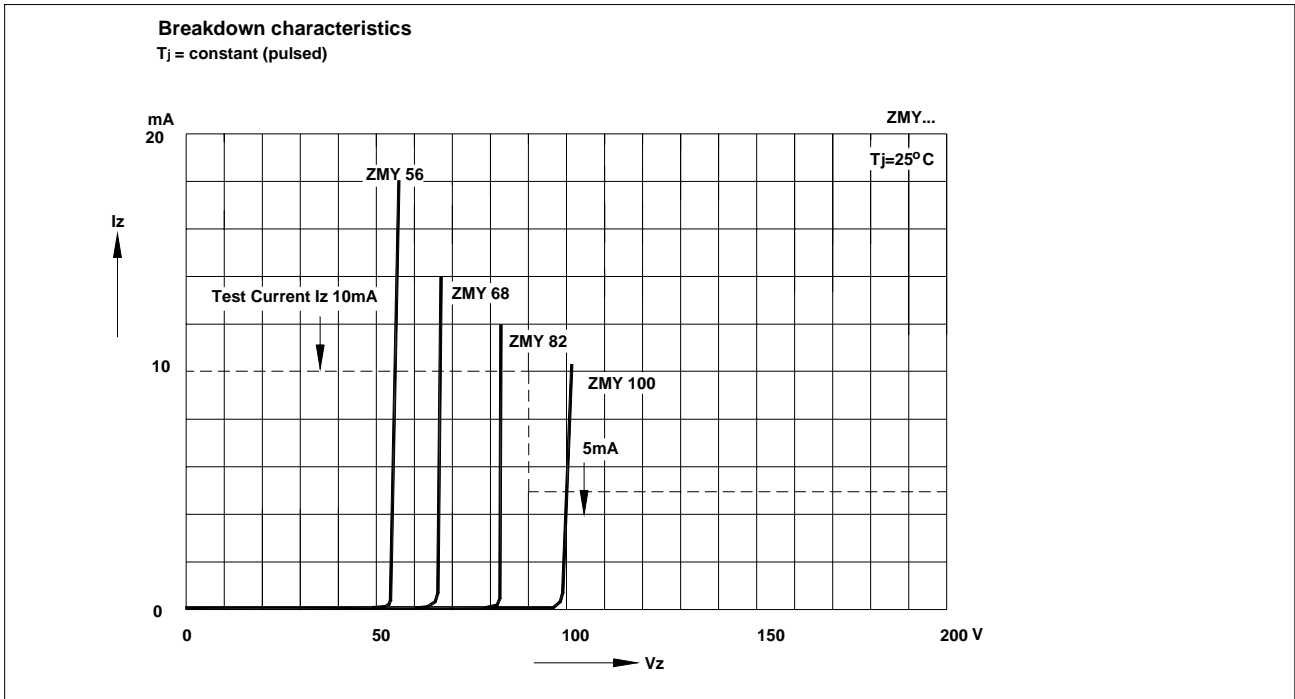
Dated : 10/09/2009



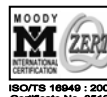
SEMTECH ELECTRONICS LTD.
 (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



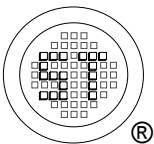
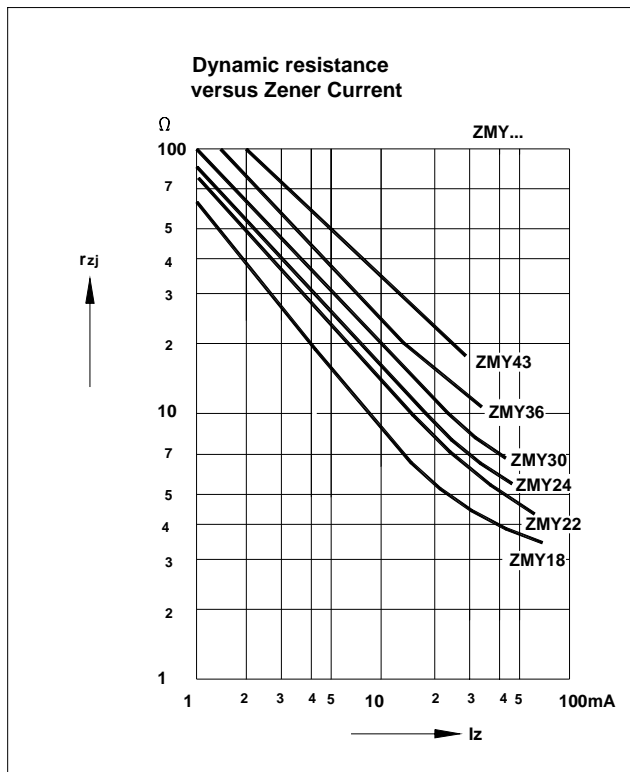
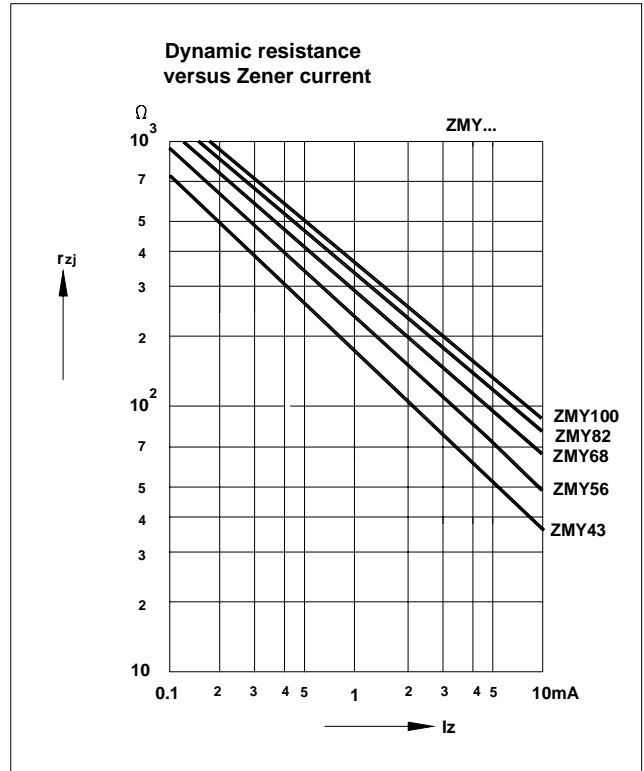
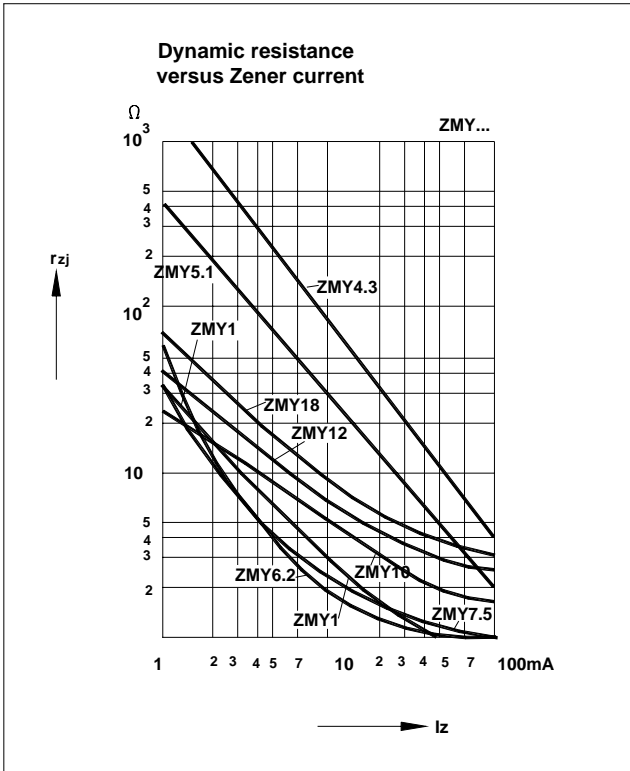
ZMY1...ZMY75



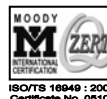
SEMTECH ELECTRONICS LTD.
 (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ZMY1...ZMY75



SEMTECH ELECTRONICS LTD.
 (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949:2002
 Certificate No. 05103

ISO 14001:2004
 Certificate No. 7116

ISO 9001:2008
 Certificate No. 0500598

BS-OHSAS 18001:2007
 Certificate No. 7116

IECQ QC 080000
 Certificate No. 7116

Dated : 10/09/2009