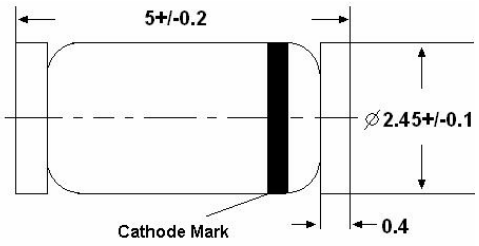
ZMY5B1...ZMY39B(1W)

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.

LL-41



Glass case MELF
Dimensions in mm

Absolute Maximum Ratings (Ta = 25°C)

	Symbol	Value	Unit
Power Dissipation	P_{tot}	1[1)]	W
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}	-	-	170[1)]	K/W
[1)] Valid provided that electrodes are kept at ambient temperature.					

ZMY5B1...ZMY39B(1W)

TYPE	Zener voltage[2] at I_{ZT} Vz (V)	Dynamic Resistance at $I_{ZT;}$ f =1kHz $r_{zj}\Omega$	Temp. coeff. of Zener volt. at I_{ZT}; $_{VZ}10^{-4}$/K	Test current I_{ZT} (mA)	Maximum reverse leakage current at I_R (μA)	at V_R(V)	Admissible Zener current[1] at T_{amb} = 25°C I_Z (mA)
ZMY5B1	4.99…5.20	2(<5)	-6...+5	100	10	1	150
ZMY5B6	5.49…5.71	1(<2)	-3...+5	100	0.5	2	135
ZMY6B2	6.07…6.32	1(<2)	-1...+6	100	0.5	3	128
ZMY6B8	6.66…6.94	1(<2)	0...+7	100	0.5	4	110
ZMY7B5	7.35…7.65	1(<2)	0...+7	100	0.5	5	100
ZMY8B2	8.04…8.36	1(<2)	+3...+8	100	0.5	6	89
ZMY9B1	8.92…9.28	2(<4)	+3...+8	50	0.5	7	82
ZMY10B	9.8…10.2	2(<4)	+5...+9	50	0.5	7.6	74
ZMY11B	10.8…11.2	3(<7)	+5...+10	50	0.5	8.4	66
ZMY12B	11.8…12.2	3(<7)	+5...+10	50	0.5	9.1	60
ZMY13B	12.7…13.3	4(<9)	+5...+10	50	0.5	9.9	55
ZMY15B	14.7…15.3	4(<9)	+5...+10	50	0.5	11.4	49
ZMY16B	15.7…16.3	5(<10)	+7...+11	25	0.5	12.2	44
ZMY18B	17.6…18.4	5(<11)	+7...+11	25	0.5	13.7	40
ZMY20B	19.6…20.4	6(<12)	+7...+11	25	0.5	15.2	36
ZMY22B	21.6…22.5	7(<13)	+7...+11	25	0.5	16.7	34
ZMY24B	23.5…24.5	8(<14)	+7...+12	25	0.5	18.2	29
ZMY27B	26.4…27.6	9(<15)	+7...+12	25	0.5	20.6	27
ZMY30B	29.4…30.6	10(<20)	+7...+12	25	0.5	22.8	25
ZMY33B	32.3…33.7	11(<20)	+7...+12	25	0.5	25.1	22
ZMY36B	35.2…36.8	25(<60)	+7...+12	10	0.5	27.4	20
ZMY39B	38.2…39.8	30(<60)	+8...+12	10	0.5	29.7	18

1) Valid provided that electrodes are kept at ambient temperature.
2) Tested with pulses tp = 20 ms