

FEATURES

- Total power dissipation: max. 500 mW
- Small plastic package suitable for surface mounted design
- Tolerance approximately $\pm 2\%$
- High temperature soldering guaranteed 260 C :/10 seconds at terminals Component in accordance to RoHS 2015/863/EU

SOD-123FL



SOD-123



MECHANICAL DATA

- Case: SOD-123 plastic case

ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES) (TA=25°C)

	<i>Symbols</i>	<i>Value</i>	<i>Units</i>
Zener current see table "Characteristics"			
Power dissipation	P _{tot}	500	mW
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-55 to+150	°C

MM1Z... SILICON PLANAR ZENER DIODES

ELECTRICAL CHARACTERISTICS (TA=25°C)

Type	Zener Voltage ¹⁾			Zener Impedance				Leakage Current	
	V _{ZT} (V)			Z _{ZT}	I _{ZT}	Z _{ZK}	I _{ZK}	I _R (μA)	V _R
	Min.	Typ.	Max.	(Ω)	(mA)	(Ω)	(mA)	Max.	(V)
MM1Z2V4B	2.35	2.4	2.45	100	5	600	1	50	1.0
MM1Z2V7B	2.65	2.7	2.75	100	5	600	1	20	1.0
MM1Z3V0B	2.94	3.0	3.06	95	5	600	1	10	1.0
MM1Z3V3B	3.23	3.3	3.37	95	5	600	1	5	1.0
MM1Z3V6B	3.53	3.6	3.67	90	5	600	1	5	1.0
MM1Z3V9B	3.82	3.9	3.98	90	5	600	1	3	1.0
MM1Z4V3B	4.21	4.3	4.39	90	5	600	1	3	1.0
MM1Z4V7B	4.61	4.7	4.79	80	5	500	1	3	2.0
MM1Z5V1B	5.00	5.1	5.20	60	5	480	1	2	2.0
MM1Z5V6B	5.49	5.6	5.71	40	5	400	1	1	2.0
MM1Z6V2B	6.08	6.2	6.32	10	5	150	1	3	4.0
MM1Z6V8B	6.66	6.8	6.94	15	5	80	1	2	4.0
MM1Z7V5B	7.35	7.5	7.65	15	5	50	1	1	5.0
MM1Z8V2B	7.79	8.04	8.36	15	5	50	1	0.7	5.0
MM1Z9V1B	8.92	9.1	9.28	15	5	100	1	0.5	6.0
MM1Z10B	9.80	10.0	10.20	20	5	150	1	0.2	7.0
MM1Z11B	10.78	11.0	11.22	20	5	150	1	0.1	8.0
MM1Z12B	11.76	12.0	12.24	25	5	150	1	0.1	8.0
MM1Z13B	12.74	13.0	13.26	30	5	170	1	0.1	8.0
MM1Z15B	14.70	15.0	15.30	30	5	200	1	0.1	10.5
MM1Z16B	15.68	16.0	16.32	40	5	200	1	0.1	11.2
MM1Z18B	17.64	18.0	18.36	45	5	225	1	0.1	12.6
MM1Z20B	19.60	20.0	20.40	55	5	225	1	0.1	14.0
MM1Z22B	21.56	22.0	22.44	55	5	250	1	0.1	15.4
MM1Z24B	23.52	24.0	24.48	70	5	250	1	0.1	16.8
MM1Z27B	26.46	27.0	27.54	80	2	300	0.5	0.1	18.9
MM1Z30B	29.40	30.0	30.60	80	2	300	0.5	0.1	21.0
MM1Z33B	32.34	33.0	33.66	80	2	325	0.5	0.1	23.1
MM1Z36B	35.28	36.0	36.72	90	2	350	0.5	0.1	25.2
MM1Z39B	38.22	39.0	39.78	130	2.0	350	0.5	0.1	27.3
MM1Z43B	42.14	43.0	43.86	130	2.0	350	0.5	0.1	29.4
MM1Z47B	45.83	47.0	48.17	170	2.0	1000	0.25	0.1	36
MM1Z51B	49.73	51.0	52.27	180	2.0	1300	0.25	0.1	39
MM1Z56B	54.60	56.0	57.40	200	2.0	1400	0.25	0.1	43
MM1Z62B	60.45	62.0	63.55	225	2.0	1400	0.25	0.1	47
MM1Z68B	66.30	68.0	69.70	240	2.0	1600	0.25	0.1	52
MM1Z75B	73.13	75.0	76.87	265	2.0	1700	0.25	0.1	56

¹⁾ Tested with pulses tp = 10 ms.

MM1Z... SILICON PLANAR ZENER DIODES

RATING AND CHARACTERISTIC CURVES

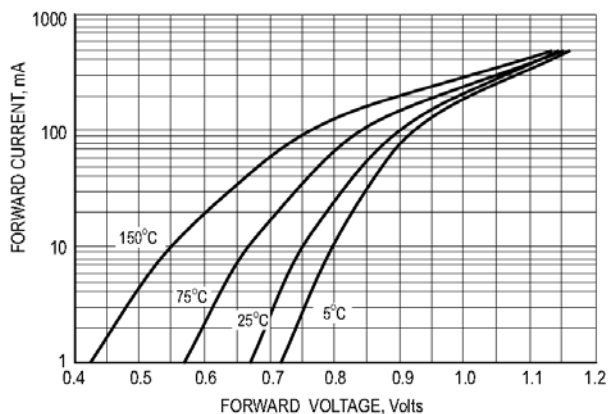


Fig.1 TYPICAL FORWARD VOLTAGE

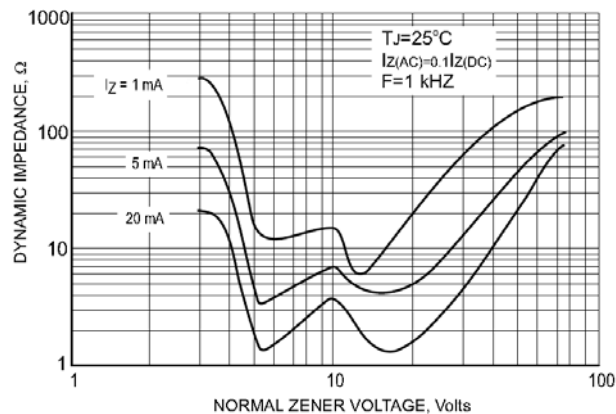


Fig.2 EFFECT OF ZENER VOLTAGE ON ZENER IMPEDANCE

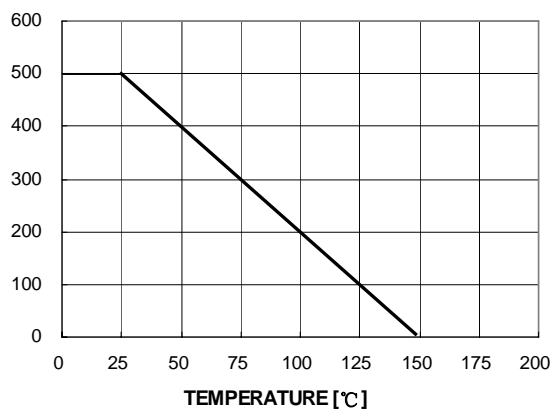


Fig.3 POWER DISSIPATION VS. AMBIENT TEMP.

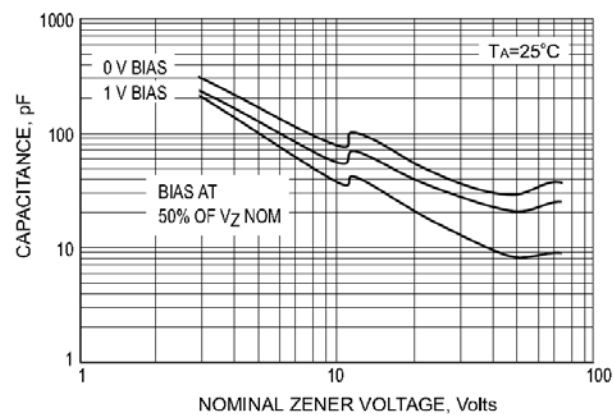


Fig.4 TYPICAL CAPACITANCE

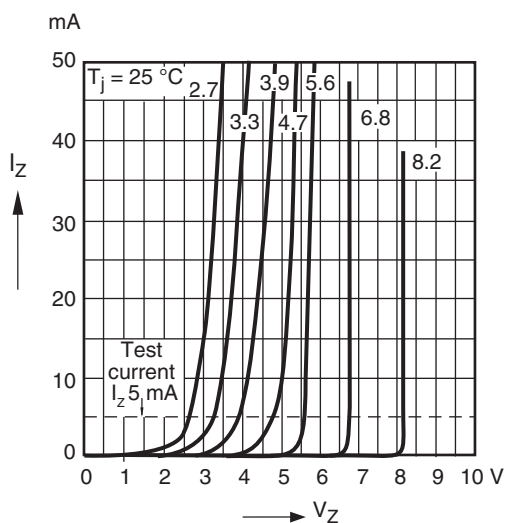


Fig.5 ZENER BREAKDOWN CHARACTERISTICS

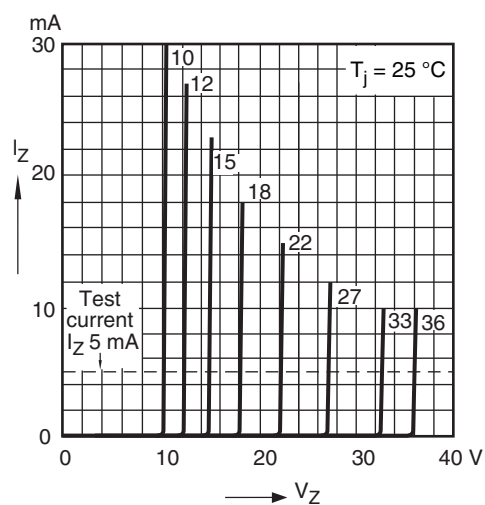


Fig.6 ZENER BREAKDOWN CHARACTERISTICS

MM1Z... SILICON PLANAR ZENER DIODES

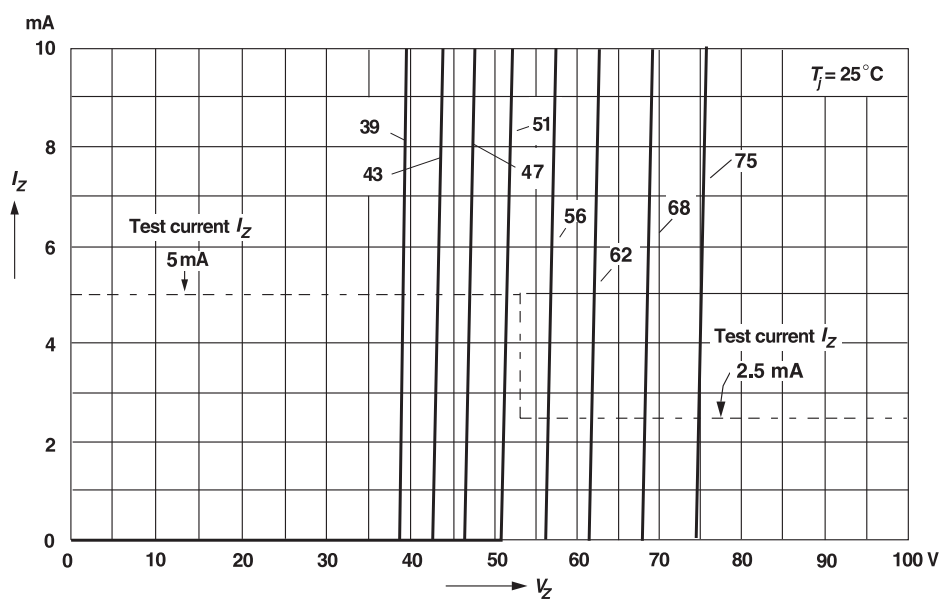


Fig.7 ZENER BREAKDOWN CHARACTERISTICS

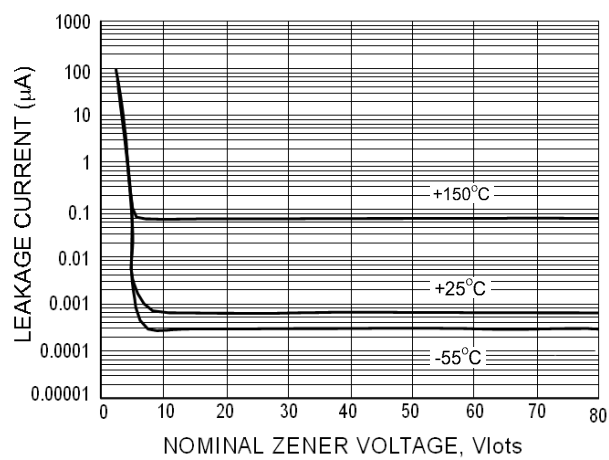
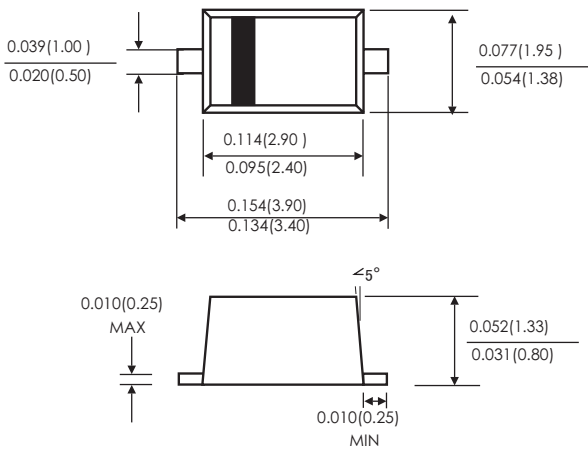


Fig.8 TYPICAL LEAKAGE CURRENT

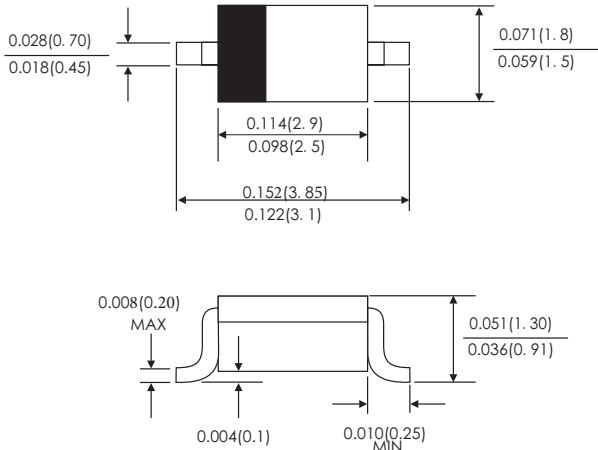
MM1Z... SILICON PLANAR ZENER DIODES

SOD-123FL



Dimensions in inches and (millimeters)

SOD-123



Dimensions in inches and (millimeters)