

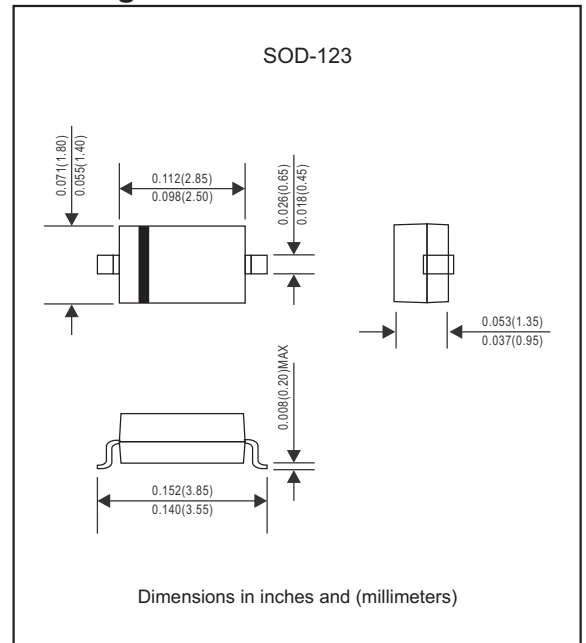
Features

- Zener breakdown voltage range.3.3V-56V
- Small package size for high density applications.
- Ideally suited for automated assembly processes.
- Compliant to Halogen-free

Mechanical data

- Case : Molded plastic, SOD-123
- Polarity : Indicated by cathode band
- Mounting Position : Any

Package outline



Maximum ratings (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Forward Voltage @ $I_F=10\text{mA}$	V_F	0.9	V
Power Dissipation (Collector)	P_C	500	mW
Thermal Resistance (Junction-to-Ambient)	$R_{\theta JA}$	250	$^{\circ}\text{C/W}$
Thermal Resistance (Junction-to-Case)	$R_{\theta JC}$	140	$^{\circ}\text{C/W}$
Junction Temperature Range	T_J	-55 ~ +150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-65 ~ +150	$^{\circ}\text{C}$

Note: These ratings are limiting values above which the serviceability of the diodes may be impaired.

Electrical characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Part Number	Marking Code	Zener Voltage V_Z (V)			@ I_{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Current I_R (μA)	@ V_R (V)
		Min.	Typ.	Max.		Z_{ZT} (Ω) @ I_{ZT}	Z_{ZK} (Ω)	@ I_{ZK} (mA)		
MMSZ5226A	D1	3.23	3.30	3.37	20.0	28	1600	0.25	5.000	1.0
MMSZ5227A	D2	3.53	3.60	3.67	20.0	24	1700	0.25	5.000	1.0
MMSZ5228A	D3	3.82	3.90	3.98	20.0	23	1900	0.25	5.000	1.0
MMSZ5229A	D4	4.21	4.30	4.39	20.0	22	2000	0.25	5.000	1.0
MMSZ5230A	D5	4.61	4.70	4.79	20.0	19	1900	0.25	5.000	2.0
MMSZ5231A	E1	5.00	5.10	5.20	20.0	17	1600	0.25	5.000	2.0
MMSZ5232A	E2	5.49	5.60	5.71	20.0	11	1600	0.25	5.000	3.0
MMSZ5233A	E3•	5.88	6.00	6.12	20.0	7	1600	0.25	5.000	3.5
MMSZ5234A	E4	6.08	6.20	6.32	20.0	7	1000	0.25	5.000	4.0
MMSZ5235A	E5	6.66	6.80	6.94	20.0	5	750	0.25	3.000	5.0
MMSZ5236A	F1	7.35	7.50	7.65	20.0	6	500	0.25	3.000	6.0
MMSZ5237A	F2	8.04	8.20	8.36	20.0	8	500	0.25	3.000	6.0
MMSZ5238A	F3•	8.53	8.70	8.87	20.0	8	600	0.25	3.000	6.0
MMSZ5239A	F4	8.92	9.10	9.28	20.0	10	600	0.25	3.000	6.5
MMSZ5240A	F5	9.80	10.00	10.20	20.0	17	600	0.25	3.000	8.0
MMSZ5241A	H1	10.78	11.00	11.22	20.0	22	600	0.25	3.000	8.4
MMSZ5242A	H2	11.76	12.00	12.24	20.0	30	600	0.25	2.000	9.1
MMSZ5243A	H3	12.74	13.00	13.26	9.5	13	600	0.25	1.000	9.9
MMSZ5244A	H4	13.72	14.00	14.28	9.0	15	600	0.25	0.500	10.5
MMSZ5245A	H5	14.70	15.00	15.30	8.5	16	600	0.25	0.500	11.0
MMSZ5246A	J1	15.68	16.00	16.32	7.8	17	600	0.25	0.100	12.0
MMSZ5247A	J2•	16.66	17.00	17.34	7.5	19	600	0.25	0.100	13.0
MMSZ5248A	J3	17.64	18.00	18.36	7.0	21	600	0.25	0.100	14.0
MMSZ5250A	J5	19.60	20.00	20.40	6.2	25	600	0.25	0.100	15.0
MMSZ5251A	K1	21.56	22.00	22.44	5.6	29	600	0.25	0.100	17.0
MMSZ5252A	K2	23.52	24.00	24.48	5.2	33	600	0.25	0.100	18.0
MMSZ5253A	K3	24.50	25.00	25.50	5.0	35	600	0.25	0.100	19.0
MMSZ5254A	K4	26.46	27.00	27.54	5.0	41	600	0.25	0.100	21.0
MMSZ5255A	K5	27.44	28.00	28.56	4.5	44	600	0.25	0.100	21.0
MMSZ5256A	M1	29.40	30.00	30.60	4.2	49	600	0.25	0.100	23.0
MMSZ5257A	M2	32.34	33.00	33.66	3.8	58	700	0.25	0.100	25.0
MMSZ5258A	M3	35.28	36.00	36.72	3.4	70	700	0.25	0.100	27.0
MMSZ5259A	M4	38.22	39.00	39.78	3.2	80	800	0.25	0.100	30.0
MMSZ5260A	M5	42.14	43.00	43.86	3.0	93	900	0.25	0.100	33.0
MMSZ5261A	N1	46.06	47.00	47.94	2.7	105	1000	0.25	0.100	36.0
MMSZ5262A	N2	49.98	51.00	52.02	2.5	125	1000	0.25	0.100	39.0
MMSZ5263A	3A	54.88	56.00	57.12	2.2	150	1300	0.25	0.100	43.0

Typical Characteristics (at $T_A = 25^\circ\text{C}$ unless otherwise noted)

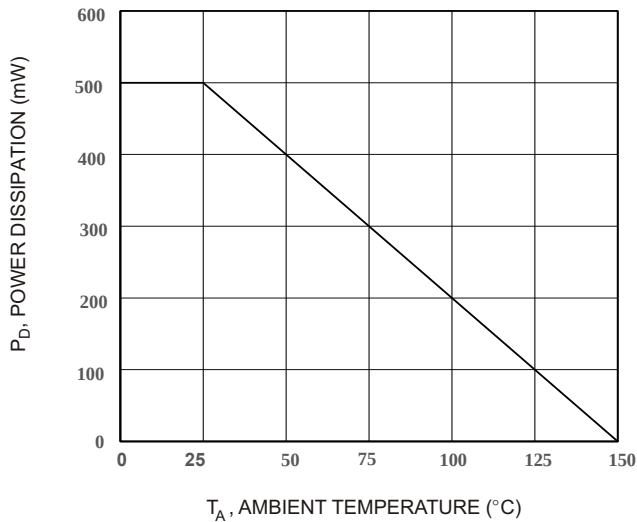


Fig. 1 Power Dissipation vs Ambient Temperature

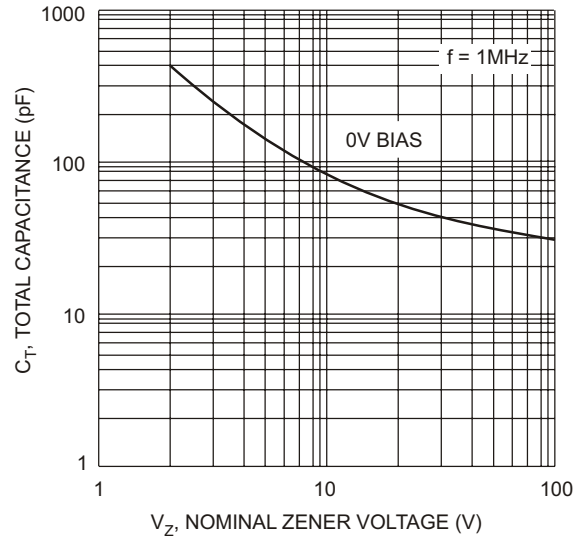


Fig. 2 Typical Capacitance

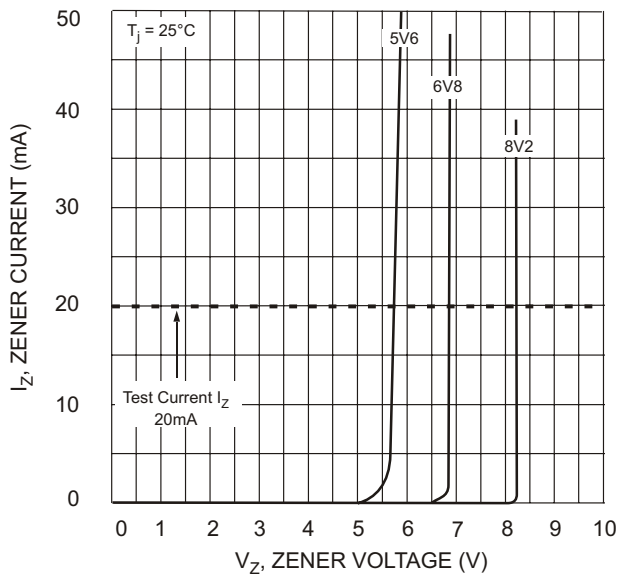


Fig. 3 Zener Breakdown Characteristics

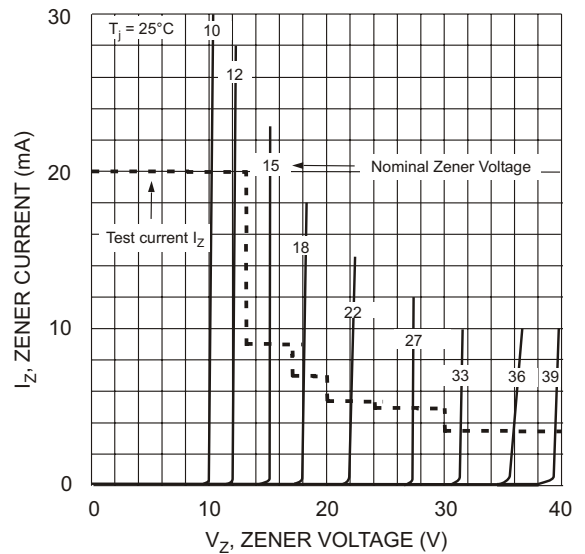
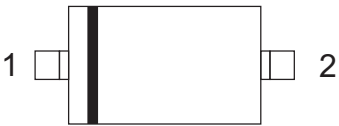
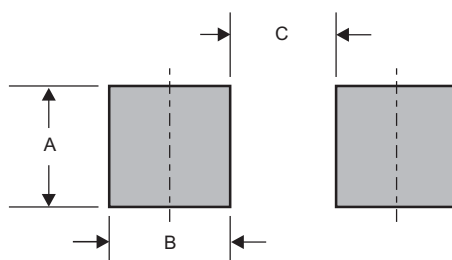


Fig. 4 Zener Breakdown Characteristics

Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C
SOD-123	0.048 (1.22)	0.036 (0.91)	0.093 (2.36)