

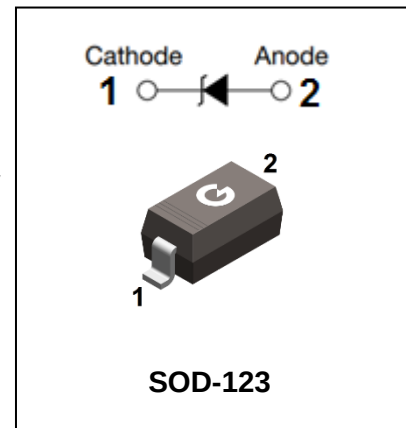
SMT-Type Zener Diode

MMSZ5226A-MMSZ5263A

FEATURES

- Large selection of zener voltages: 3.3V ~ 56V
- Tight voltage tolerance: $\pm 2\%$ for A-series
- Ultra low-profile package well suited for automated assembly
- MSL Class 1 compatible
- RoHS compliant with Halogen-free

HF



APPLICATIONS

- General voltage regulation
- Mobile & handheld systems

ORDERING INFORMATION

Part Number	Marking	Package
MMSZ5226A – MMSZ5263A	See Electrical Characteristics	SOD-123

MAXIMUM RATING (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

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.

SMT-Type Zener Diode

MMSZ5226A-MMSZ5263A

ELECTRICAL CHARACTERISTICS (@ T_A = 25°C unless otherwise specified)

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	25.000	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

SMT-Type Zener Diode

MMSZ5226A-MMSZ5263A

TYPICAL CHARACTERISTICS (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

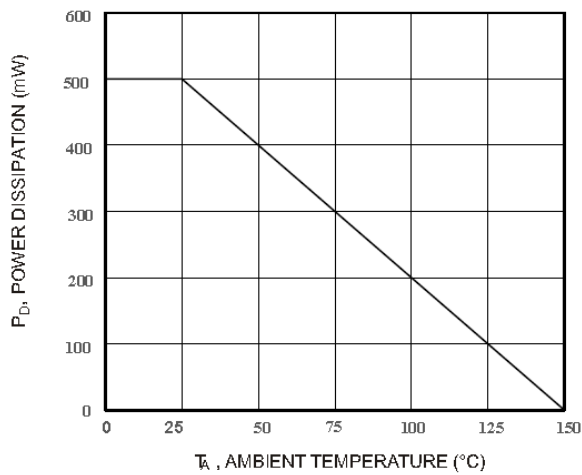


Fig. 1 Power Dissipation vs Ambient Temperature

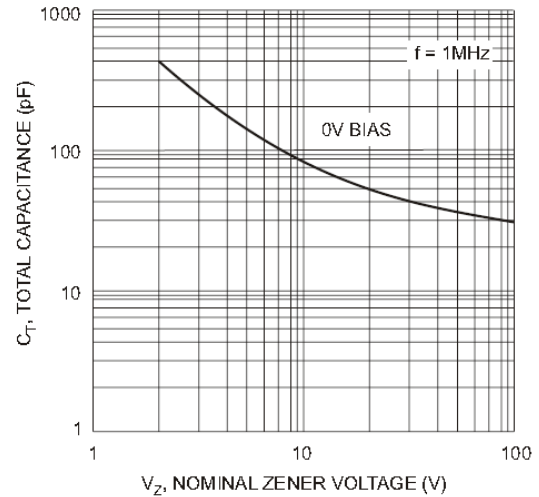


Fig. 2 Typical Capacitance

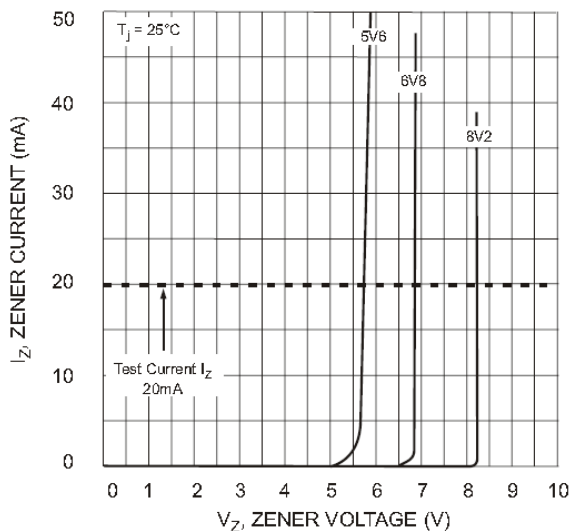


Fig. 3 Zener Breakdown Characteristics

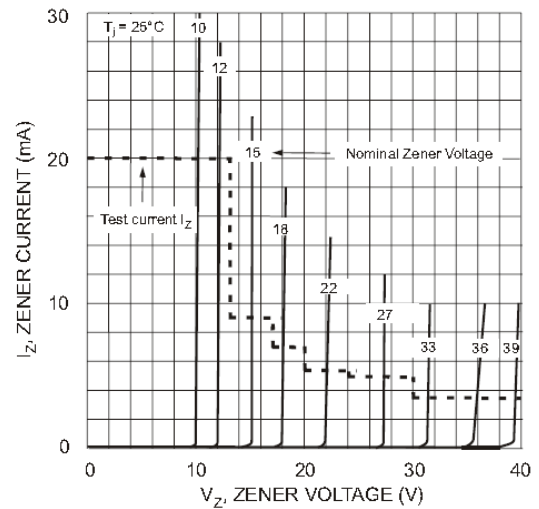


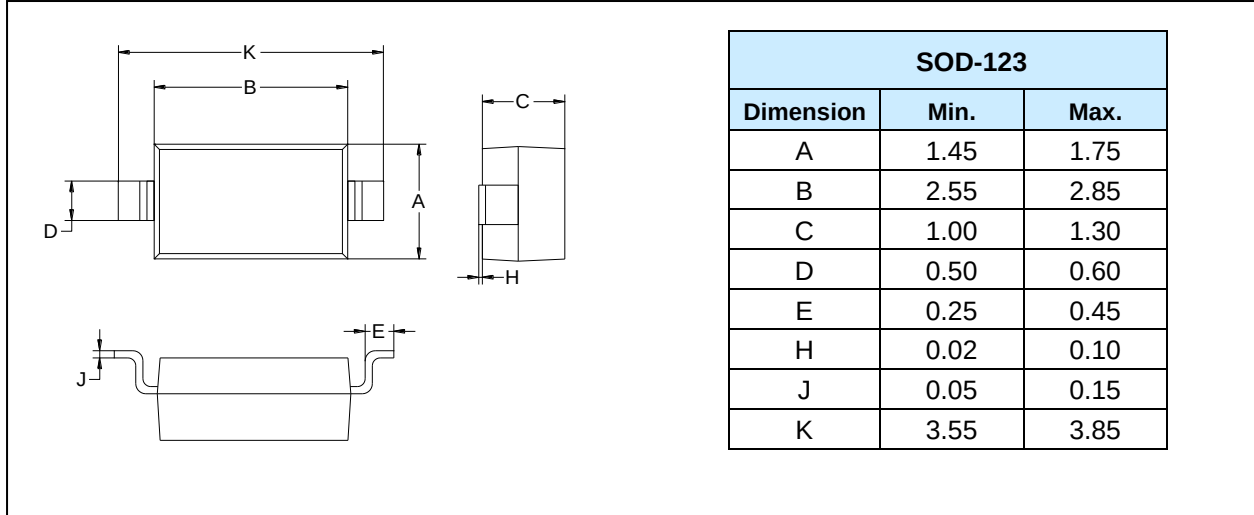
Fig. 4 Zener Breakdown Characteristics

SMT-Type Zener Diode

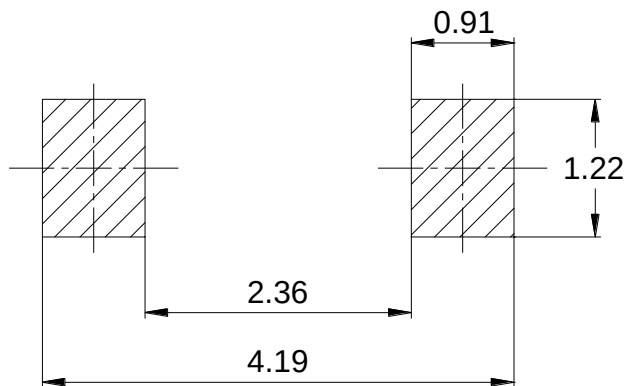
MMSZ5226A-MMSZ5263A

PACKAGE OUTLINE (Unit: mm)

Plastic surface mounted package



MOUNTING PAD LAYOUT (Unit: mm)



PACKAGE INFORMATION

Part Number	Package	Shipping Quantity
MMSZ5226A - MMSZ5263A	SOD-123	3000pcs / Tape & Reel