

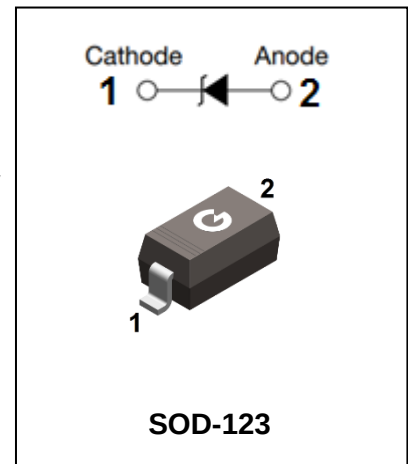
SMT-Type Zener Diode

TMMSZ5226A-TMMSZ5263A

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
- Qualified to AEC-Q101 Standards

HF



APPLICATIONS

- General voltage regulation
- Mobile & handheld systems

ORDERING INFORMATION

Part Number	Marking	Package
TMMSZ5226A – TMMSZ5263A	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	P_D	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

TMMSZ5226A-TMMSZ5263A

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)		
TMMSZ5226A	D1	3.23	3.30	3.37	20.0	28	1600	0.25	25.000	1.0
TMMSZ5227A	D2	3.53	3.60	3.67	20.0	24	1700	0.25	5.000	1.0
TMMSZ5228A	D3	3.82	3.90	3.98	20.0	23	1900	0.25	5.000	1.0
TMMSZ5229A	D4	4.21	4.30	4.39	20.0	22	2000	0.25	5.000	1.0
TMMSZ5230A	D5	4.61	4.70	4.79	20.0	19	1900	0.25	5.000	2.0
TMMSZ5231A	E1	5.00	5.10	5.20	20.0	17	1600	0.25	5.000	2.0
TMMSZ5232A	E2	5.49	5.60	5.71	20.0	11	1600	0.25	5.000	3.0
TMMSZ5233A	E3•	5.88	6.00	6.12	20.0	7	1600	0.25	5.000	3.5
TMMSZ5234A	E4	6.08	6.20	6.32	20.0	7	1000	0.25	5.000	4.0
TMMSZ5235A	E5	6.66	6.80	6.94	20.0	5	750	0.25	3.000	5.0
TMMSZ5236A	F1	7.35	7.50	7.65	20.0	6	500	0.25	3.000	6.0
TMMSZ5237A	F2	8.04	8.20	8.36	20.0	8	500	0.25	3.000	6.0
TMMSZ5238A	F3•	8.53	8.70	8.87	20.0	8	600	0.25	3.000	6.0
TMMSZ5239A	F4	8.92	9.10	9.28	20.0	10	600	0.25	3.000	6.5
TMMSZ5240A	F5	9.80	10.00	10.20	20.0	17	600	0.25	3.000	8.0
TMMSZ5241A	H1	10.78	11.00	11.22	20.0	22	600	0.25	3.000	8.4
TMMSZ5242A	H2	11.76	12.00	12.24	20.0	30	600	0.25	2.000	9.1
TMMSZ5243A	H3	12.74	13.00	13.26	9.5	13	600	0.25	1.000	9.9
TMMSZ5244A	H4	13.72	14.00	14.28	9.0	15	600	0.25	0.500	10.5
TMMSZ5245A	H5	14.70	15.00	15.30	8.5	16	600	0.25	0.500	11.0
TMMSZ5246A	J1	15.68	16.00	16.32	7.8	17	600	0.25	0.100	12.0
TMMSZ5247A	J2•	16.66	17.00	17.34	7.5	19	600	0.25	0.100	13.0
TMMSZ5248A	J3	17.64	18.00	18.36	7.0	21	600	0.25	0.100	14.0
TMMSZ5250A	J5	19.60	20.00	20.40	6.2	25	600	0.25	0.100	15.0
TMMSZ5251A	K1	21.56	22.00	22.44	5.6	29	600	0.25	0.100	17.0
TMMSZ5252A	K2	23.52	24.00	24.48	5.2	33	600	0.25	0.100	18.0
TMMSZ5253A	K3	24.50	25.00	25.50	5.0	35	600	0.25	0.100	19.0
TMMSZ5254A	K4	26.46	27.00	27.54	5.0	41	600	0.25	0.100	21.0
TMMSZ5255A	K5	27.44	28.00	28.56	4.5	44	600	0.25	0.100	21.0
TMMSZ5256A	M1	29.40	30.00	30.60	4.2	49	600	0.25	0.100	23.0
TMMSZ5257A	M2	32.34	33.00	33.66	3.8	58	700	0.25	0.100	25.0
TMMSZ5258A	M3	35.28	36.00	36.72	3.4	70	700	0.25	0.100	27.0
TMMSZ5259A	M4	38.22	39.00	39.78	3.2	80	800	0.25	0.100	30.0
TMMSZ5260A	M5	42.14	43.00	43.86	3.0	93	900	0.25	0.100	33.0
TMMSZ5261A	N1	46.06	47.00	47.94	2.7	105	1000	0.25	0.100	36.0
TMMSZ5262A	N2	49.98	51.00	52.02	2.5	125	1000	0.25	0.100	39.0
TMMSZ5263A	3A	54.88	56.00	57.12	2.2	150	1300	0.25	0.100	43.0

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

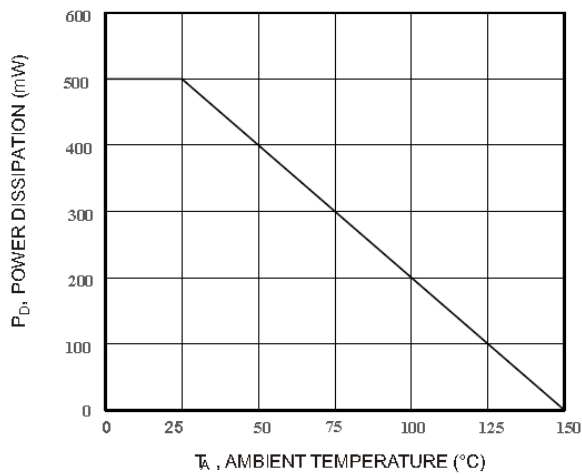


Fig. 1 Power Dissipation vs Ambient Temperature

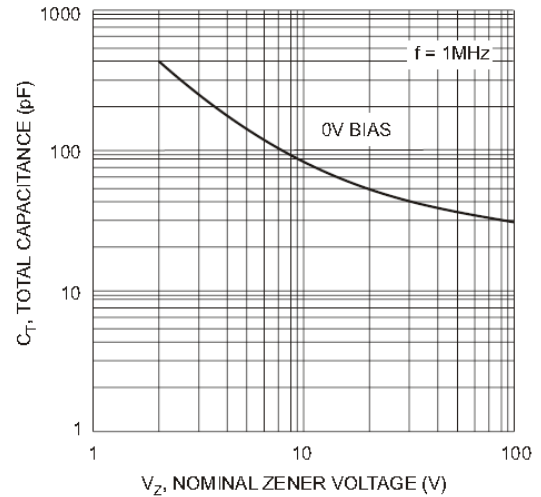


Fig. 2 Typical Capacitance

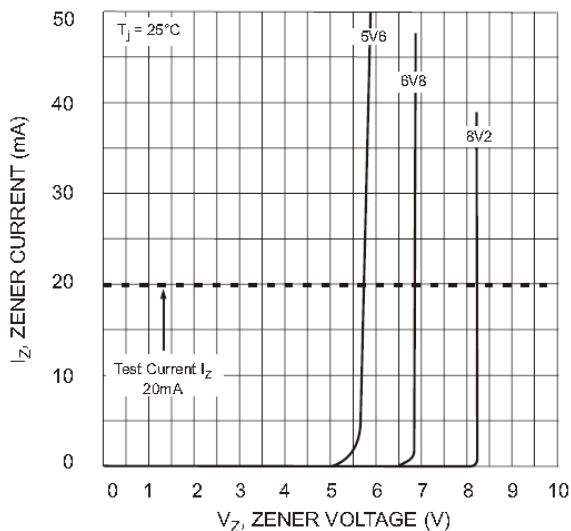


Fig. 3 Zener Breakdown Characteristics

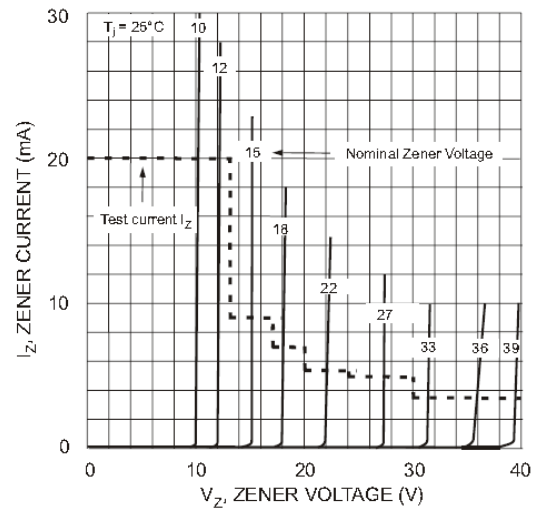


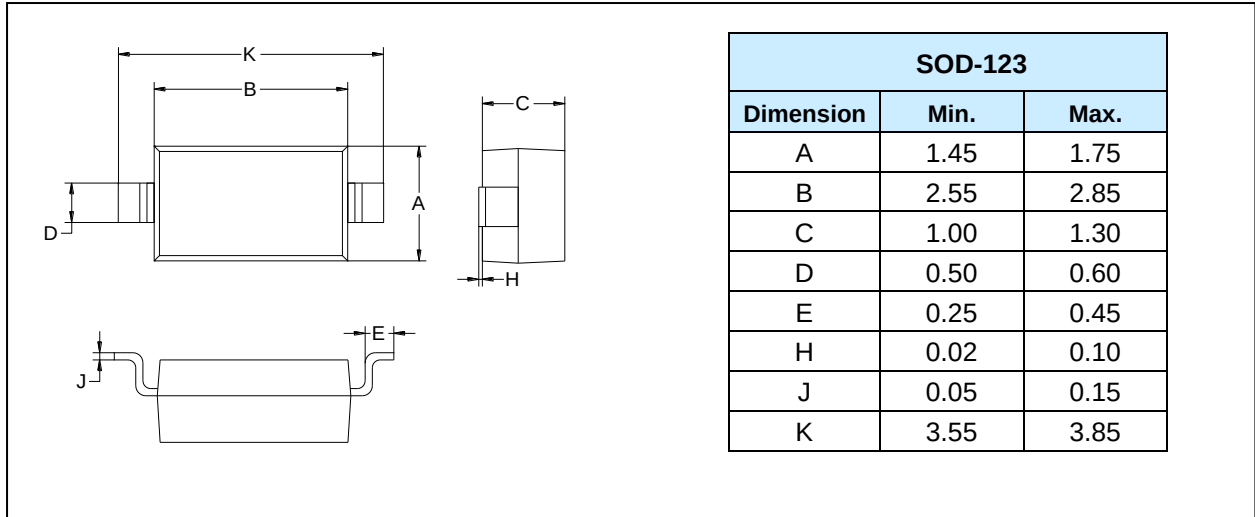
Fig. 4 Zener Breakdown Characteristics

SMT-Type Zener Diode

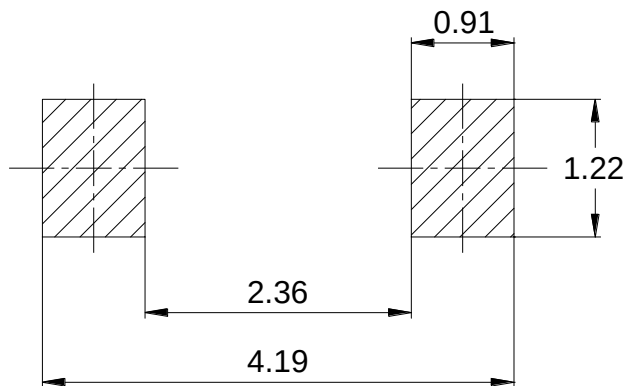
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PACKAGE OUTLINE (Unit: mm)

Plastic surface mounted package



MOUNTING PAD LAYOUT (Unit: mm)



PACKAGE INFORMATION

Part Number	Package	Shipping Quantity
TMMSZ5226A - TMMSZ5263A	SOD-123	3000pcs / Tape & Reel