

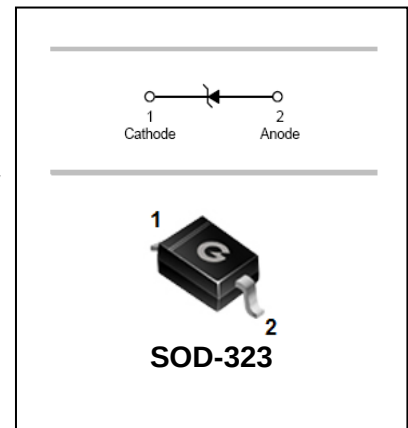
SMT-Type Zener Diode

TMMSZ5226AS-TMMSZ5263AS

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
- Halogen free
- Qualified to AEC-Q101 standards for high reliability

HF



APPLICATIONS

- General voltage regulation
- Mobile & handheld systems

ORDERING INFORMATION

Part Number	Marking	Package
TMMSZ5226AS – TMMSZ5263AS	See Electrical Characteristics	SOD-323

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	200	mW
Thermal Resistance (Junction-to-Ambient)	$R_{\theta JA}$	625	$^\circ\text{C/W}$
Thermal Resistance (Junction-to-Case)	$R_{\theta JC}$	337	$^\circ\text{C/W}$
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.

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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)		
TMMSZ5226AS	D1	3.23	3.30	3.37	20.0	28	1600	0.25	5.000	1.0
TMMSZ5227AS	D2	3.53	3.60	3.67	20.0	24	1700	0.25	5.000	1.0
TMMSZ5228AS	D3	3.82	3.90	3.98	20.0	23	1900	0.25	5.000	1.0
TMMSZ5229AS	D4	4.21	4.30	4.39	20.0	22	2000	0.25	5.000	1.0
TMMSZ5230AS	D5	4.61	4.70	4.79	20.0	19	1900	0.25	5.000	2.0
TMMSZ5231AS	E1	5.00	5.10	5.20	20.0	17	1600	0.25	5.000	2.0
TMMSZ5232AS	E2	5.49	5.60	5.71	20.0	11	1600	0.25	5.000	3.0
TMMSZ5233AS	E3•	5.88	6.00	6.12	20.0	7	1600	0.25	5.000	3.5
TMMSZ5234AS	E4	6.08	6.20	6.32	20.0	7	1000	0.25	5.000	4.0
TMMSZ5235AS	E5	6.66	6.80	6.94	20.0	5	750	0.25	3.000	5.0
TMMSZ5236AS	F1	7.35	7.50	7.65	20.0	6	500	0.25	3.000	6.0
TMMSZ5237AS	F2	8.04	8.20	8.36	20.0	8	500	0.25	3.000	6.0
TMMSZ5238AS	F3•	8.53	8.70	8.87	20.0	8	600	0.25	3.000	6.0
TMMSZ5239AS	F4	8.92	9.10	9.28	20.0	10	600	0.25	3.000	6.5
TMMSZ5240AS	F5	9.80	10.00	10.20	20.0	17	600	0.25	3.000	8.0
TMMSZ5241AS	H1	10.78	11.00	11.22	20.0	22	600	0.25	3.000	8.4
TMMSZ5242AS	H2	11.76	12.00	12.24	20.0	30	600	0.25	2.000	9.1
TMMSZ5243AS	H3	12.74	13.00	13.26	9.5	13	600	0.25	1.000	9.9
TMMSZ5244AS	H4	13.72	14.00	14.28	9.0	15	600	0.25	0.500	10.5
TMMSZ5245AS	H5	14.70	15.00	15.30	8.5	16	600	0.25	0.500	11.0
TMMSZ5246AS	J1	15.68	16.00	16.32	7.8	17	600	0.25	0.100	12.0
TMMSZ5247AS	J2•	16.66	17.00	17.34	7.5	19	600	0.25	0.100	13.0
TMMSZ5248AS	J3	17.64	18.00	18.36	7.0	21	600	0.25	0.100	14.0
TMMSZ5250AS	J5	19.60	20.00	20.40	6.2	25	600	0.25	0.100	15.0
TMMSZ5251AS	K1	21.56	22.00	22.44	5.6	29	600	0.25	0.100	17.0
TMMSZ5252AS	K2	23.52	24.00	24.48	5.2	33	600	0.25	0.100	18.0
TMMSZ5253AS	K3	24.50	25.00	25.50	5.0	35	600	0.25	0.100	19.0
TMMSZ5254AS	K4	26.46	27.00	27.54	5.0	41	600	0.25	0.100	21.0
TMMSZ5255AS	K5	27.44	28.00	28.56	4.5	44	600	0.25	0.100	21.0
TMMSZ5256AS	M1	29.40	30.00	30.60	4.2	49	600	0.25	0.100	23.0
TMMSZ5257AS	M2	32.34	33.00	33.66	3.8	58	700	0.25	0.100	25.0
TMMSZ5258AS	M3	35.28	36.00	36.72	3.4	70	700	0.25	0.100	27.0
TMMSZ5259AS	M4	38.22	39.00	39.78	3.2	80	800	0.25	0.100	30.0
TMMSZ5260AS	M5	42.14	43.00	43.86	3.0	93	900	0.25	0.100	33.0
TMMSZ5261AS	N1	46.06	47.00	47.94	2.7	105	1000	0.25	0.100	36.0
TMMSZ5262AS	N2	49.98	51.00	52.02	2.5	125	1000	0.25	0.100	39.0
TMMSZ5263AS	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)

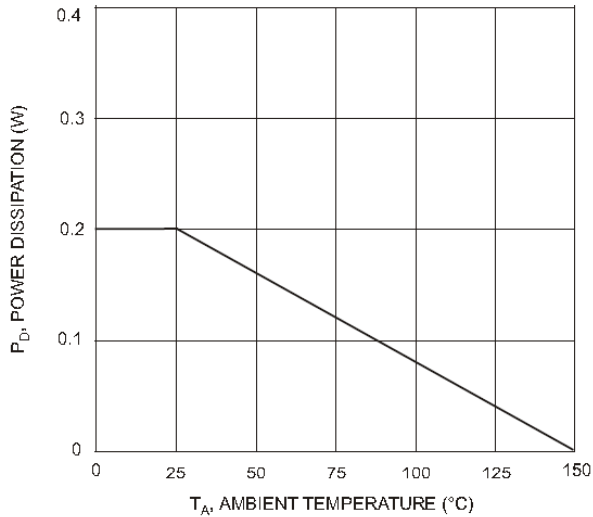


Fig. 1 Power Dissipation vs Ambient Temperature

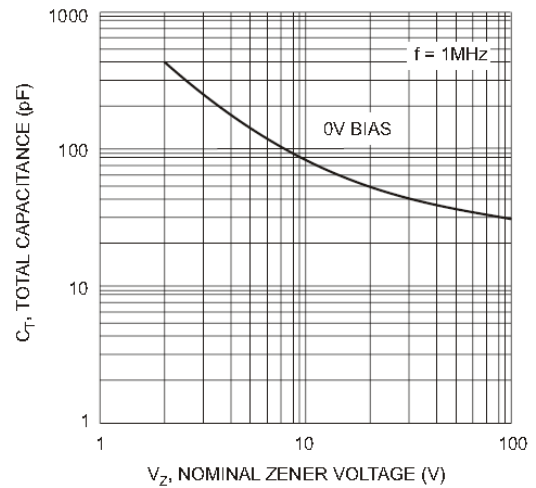


Fig. 2 Typical Capacitance

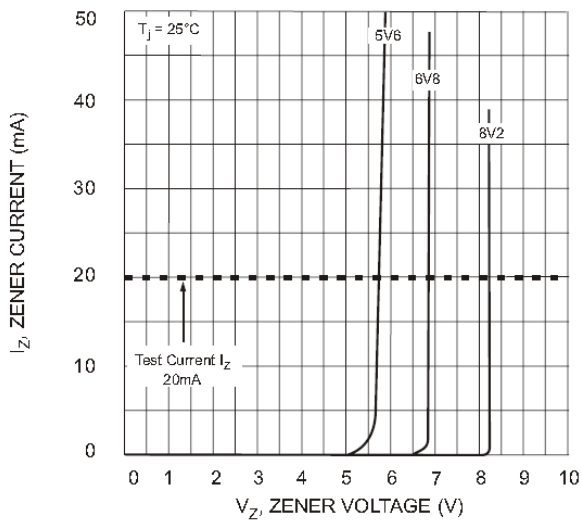


Fig. 3 Zener Breakdown Characteristics

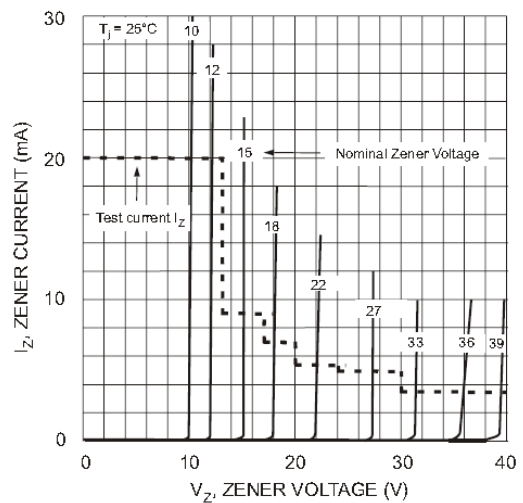


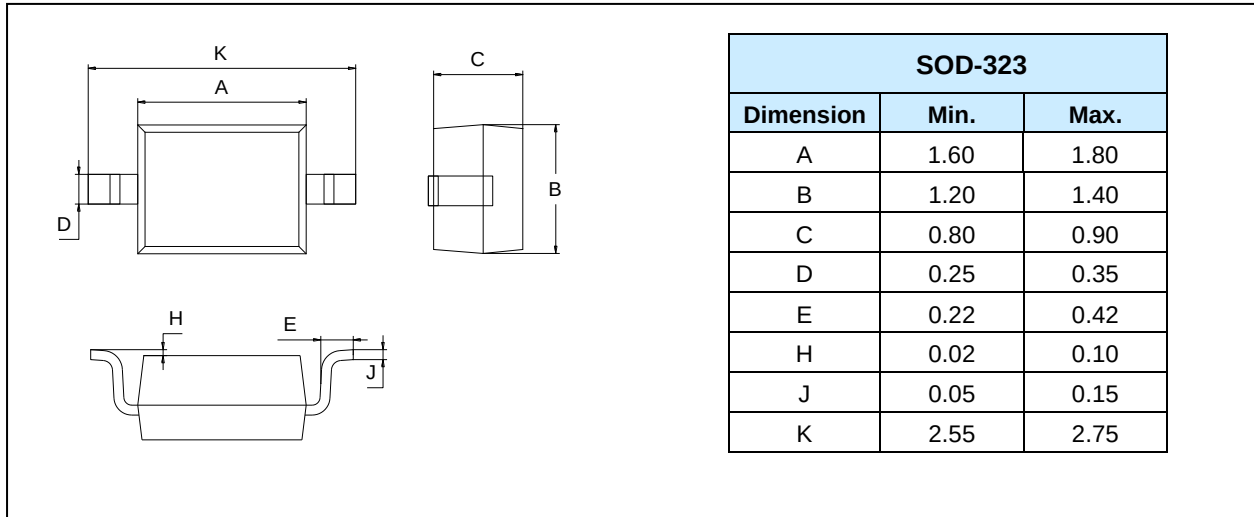
Fig. 4 Zener Breakdown Characteristics

SMT-Type Zener Diode

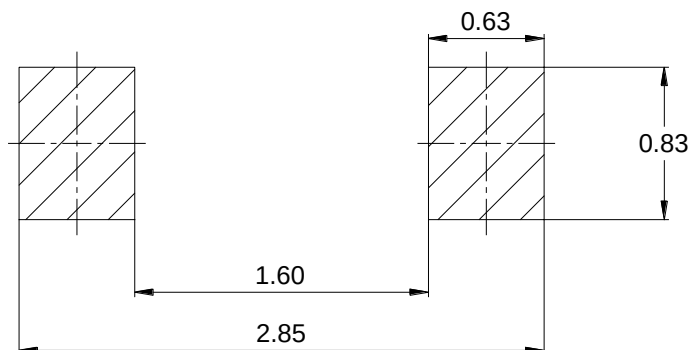
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PACKAGE OUTLINE (Unit: mm)

Plastic surface mounted package



MOUNTING PAD LAYOUT (Unit: mm)



PACKAGE INFORMATION

Part Number	Package	Shipping Quantity
TMMSZ5226AS - TMMSZ5263AS	SOD-323	3000 pcs / Tape & Reel