

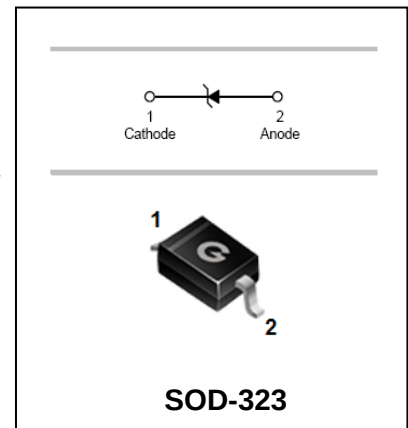
SMT-Type Zener Diode

MMSZ5226AS-MMSZ5263AS

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

HF



APPLICATIONS

- General voltage regulation
- Mobile & handheld systems

ORDERING INFORMATION

Part Number	Marking	Package
MMSZ5226AS – MMSZ5263AS	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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MMSZ5226AS-MMSZ5263AS

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)		
MMSZ5226AS	D1	3.23	3.30	3.37	20.0	28	1600	0.25	5.000	1.0
MMSZ5227AS	D2	3.53	3.60	3.67	20.0	24	1700	0.25	5.000	1.0
MMSZ5228AS	D3	3.82	3.90	3.98	20.0	23	1900	0.25	5.000	1.0
MMSZ5229AS	D4	4.21	4.30	4.39	20.0	22	2000	0.25	5.000	1.0
MMSZ5230AS	D5	4.61	4.70	4.79	20.0	19	1900	0.25	5.000	2.0
MMSZ5231AS	E1	5.00	5.10	5.20	20.0	17	1600	0.25	5.000	2.0
MMSZ5232AS	E2	5.49	5.60	5.71	20.0	11	1600	0.25	5.000	3.0
MMSZ5233AS	E3•	5.88	6.00	6.12	20.0	7	1600	0.25	5.000	3.5
MMSZ5234AS	E4	6.08	6.20	6.32	20.0	7	1000	0.25	5.000	4.0
MMSZ5235AS	E5	6.66	6.80	6.94	20.0	5	750	0.25	3.000	5.0
MMSZ5236AS	F1	7.35	7.50	7.65	20.0	6	500	0.25	3.000	6.0
MMSZ5237AS	F2	8.04	8.20	8.36	20.0	8	500	0.25	3.000	6.0
MMSZ5238AS	F3•	8.53	8.70	8.87	20.0	8	600	0.25	3.000	6.0
MMSZ5239AS	F4	8.92	9.10	9.28	20.0	10	600	0.25	3.000	6.5
MMSZ5240AS	F5	9.80	10.00	10.20	20.0	17	600	0.25	3.000	8.0
MMSZ5241AS	H1	10.78	11.00	11.22	20.0	22	600	0.25	3.000	8.4
MMSZ5242AS	H2	11.76	12.00	12.24	20.0	30	600	0.25	2.000	9.1
MMSZ5243AS	H3	12.74	13.00	13.26	9.5	13	600	0.25	1.000	9.9
MMSZ5244AS	H4	13.72	14.00	14.28	9.0	15	600	0.25	0.500	10.5
MMSZ5245AS	H5	14.70	15.00	15.30	8.5	16	600	0.25	0.500	11.0
MMSZ5246AS	J1	15.68	16.00	16.32	7.8	17	600	0.25	0.100	12.0
MMSZ5247AS	J2•	16.66	17.00	17.34	7.5	19	600	0.25	0.100	13.0
MMSZ5248AS	J3	17.64	18.00	18.36	7.0	21	600	0.25	0.100	14.0
MMSZ5250AS	J5	19.60	20.00	20.40	6.2	25	600	0.25	0.100	15.0
MMSZ5251AS	K1	21.56	22.00	22.44	5.6	29	600	0.25	0.100	17.0
MMSZ5252AS	K2	23.52	24.00	24.48	5.2	33	600	0.25	0.100	18.0
MMSZ5253AS	K3	24.50	25.00	25.50	5.0	35	600	0.25	0.100	19.0
MMSZ5254AS	K4	26.46	27.00	27.54	5.0	41	600	0.25	0.100	21.0
MMSZ5255AS	K5	27.44	28.00	28.56	4.5	44	600	0.25	0.100	21.0
MMSZ5256AS	M1	29.40	30.00	30.60	4.2	49	600	0.25	0.100	23.0
MMSZ5257AS	M2	32.34	33.00	33.66	3.8	58	700	0.25	0.100	25.0
MMSZ5258AS	M3	35.28	36.00	36.72	3.4	70	700	0.25	0.100	27.0
MMSZ5259AS	M4	38.22	39.00	39.78	3.2	80	800	0.25	0.100	30.0
MMSZ5260AS	M5	42.14	43.00	43.86	3.0	93	900	0.25	0.100	33.0
MMSZ5261AS	N1	46.06	47.00	47.94	2.7	105	1000	0.25	0.100	36.0
MMSZ5262AS	N2	49.98	51.00	52.02	2.5	125	1000	0.25	0.100	39.0
MMSZ5263AS	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)

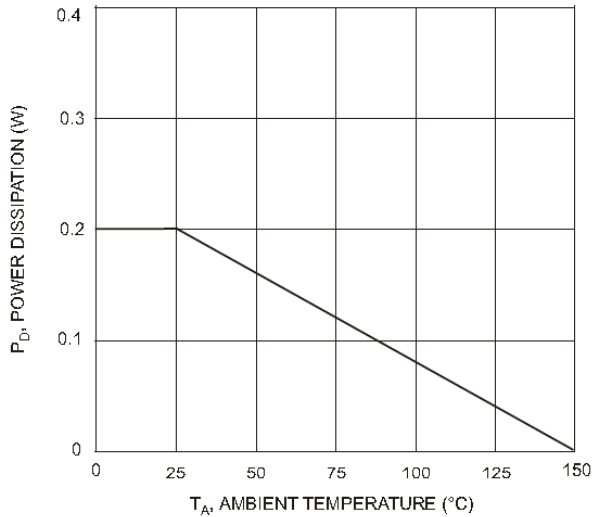


Fig. 1 Power Dissipation vs Ambient Temperature

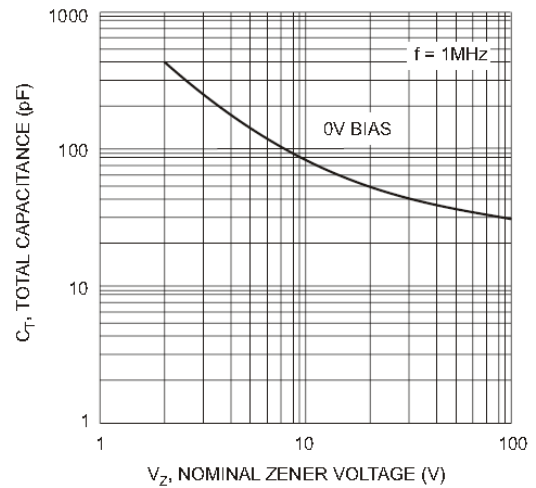


Fig. 2 Typical Capacitance

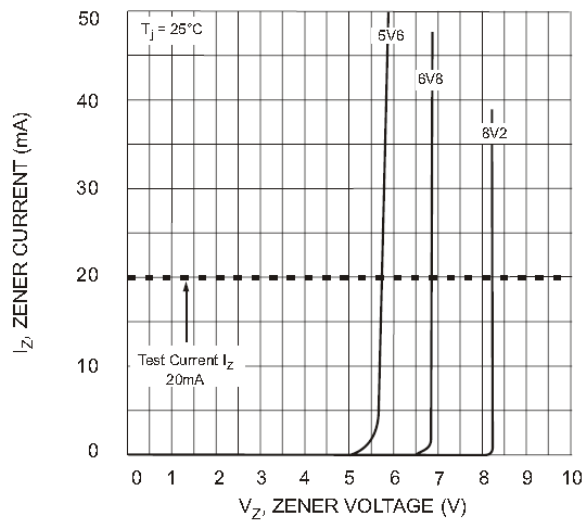


Fig. 3 Zener Breakdown Characteristics

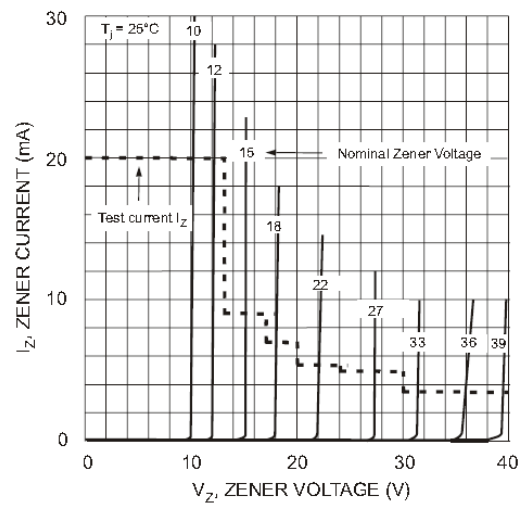


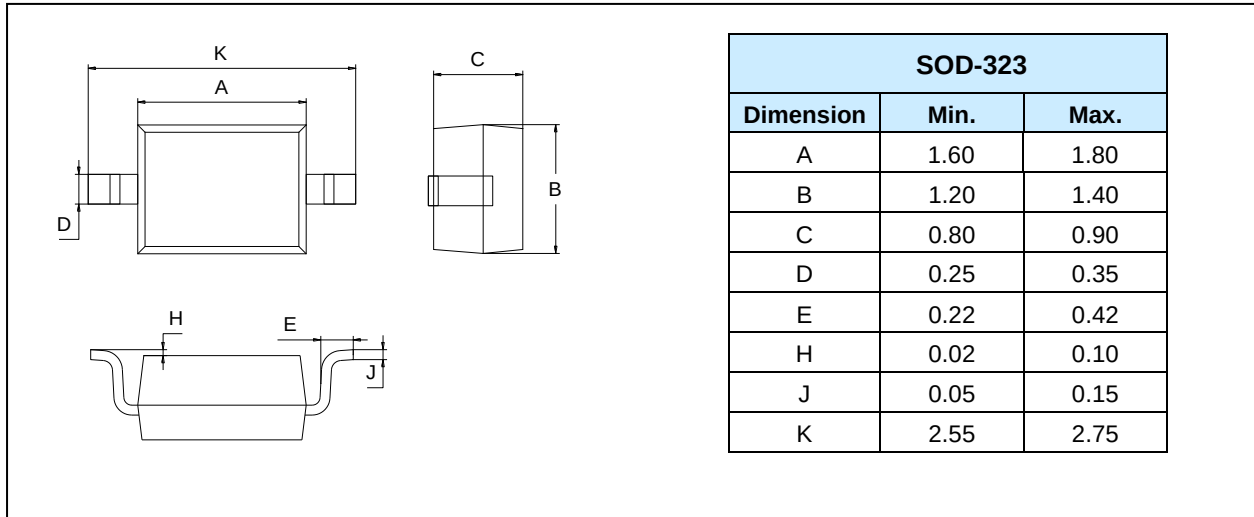
Fig. 4 Zener Breakdown Characteristics

SMT-Type Zener Diode

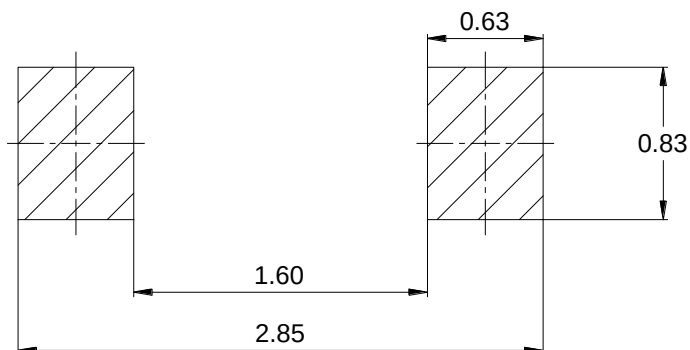
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PACKAGE OUTLINE (Unit: mm)

Plastic surface mounted package



MOUNTING PAD LAYOUT (Unit: mm)



PACKAGE INFORMATION

Part Number	Package	Shipping Quantity
MMSZ5226AS - MMSZ5263AS	SOD-323	3000 pcs / Tape & Reel