

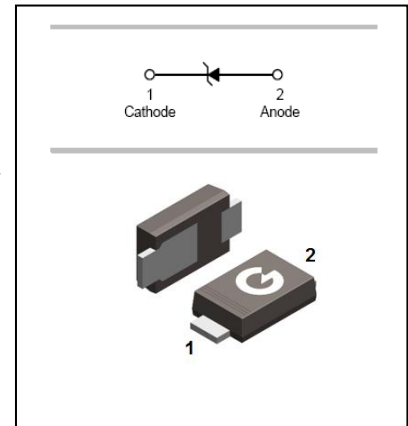
SMT-Type Zener Diode

MMSZ5221BHE-MMSZ5267BHE

FEATURES

- Large selection of zener voltages: 2.4V ~ 75V
- Tight voltage tolerance: $\pm 5\%$ for B-series
- Ultra low-profile package well suited for automated assembly
- MSL Class 1 compatible
- RoHS compliant with Halogen-free

HF



Mechanical Data

- Molding compound: UL flammability classification rating 94V-0
- Terminals: Tin-plated; solderability per MIL-STD-202, Method 208

APPLICATIONS

- General voltage regulation
- Mobile & handheld systems

ORDERING INFORMATION

Part Number	Marking	Package
MMSZ5221BHE – MMSZ5267BHE	See Electrical Characteristics	SOD-323T

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-Air ^{*1}	$R_{\theta JA}$	100	$^\circ\text{C/W}$
Thermal Resistance Junction-to-Case ^{*1}	$R_{\theta JC}$	52	$^\circ\text{C/W}$
Thermal Resistance Junction-to-Lead ^{*1}	$R_{\theta JL}$	39	$^\circ\text{C/W}$
Junction Temperature Range	T_J	-55 ~ +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 ~ +150	$^\circ\text{C}$

Note 1: The data tested by surface mounted on a 25.4mm * 25.4mm * 1mm FR4-epoxy P.C.B

SMT-Type Zener Diode

MMSZ5221BHE-MMSZ5267BHE

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)		
MMSZ5221BHE	C1	2.28	2.40	2.52	20	30	1200	0.25	100.000	1.0
MMSZ5222BHE	C2	2.38	2.50	2.63	20	30	1250	0.25	100.000	1.0
MMSZ5223BHE	C3	2.57	2.70	2.84	20	30	1300	0.25	75.000	1.0
MMSZ5225BHE	C5	2.85	3.00	3.15	20	30	1600	0.25	50.000	1.0
MMSZ5226BHE	G1	3.14	3.30	3.47	20	28	1600	0.25	25.000	1.0
MMSZ5227BHE	G2	3.42	3.60	3.78	20	24	1700	0.25	15.000	1.0
MMSZ5228BHE	G3	3.71	3.90	4.10	20	23	1900	0.25	10.000	1.0
MMSZ5229BHE	G4	4.09	4.30	4.52	20	22	2000	0.25	5.000	1.0
MMSZ5230BHE	G5	4.47	4.70	4.94	20	19	1900	0.25	5.000	2.0
MMSZ5231BHE	E1	4.85	5.10	5.36	20	17	1600	0.25	5.000	2.0
MMSZ5232BHE	E2.	5.32	5.60	5.88	20	11	1600	0.25	5.000	3.0
MMSZ5233BHE	E3	5.70	6.00	6.30	20	7	1600	0.25	5.000	3.5
MMSZ5234BHE	E4	5.89	6.20	6.51	20	7	1000	0.25	5.000	4.0
MMSZ5235BHE	E5	6.46	6.80	7.14	20	5	750	0.25	3.000	5.0
MMSZ5236BHE	F1	7.13	7.50	7.88	20	6	500	0.25	3.000	6.0
MMSZ5237BHE	F2	7.79	8.20	8.61	20	8	500	0.25	3.000	6.5
MMSZ5238BHE	F3	8.27	8.70	9.14	20	8	600	0.25	3.000	6.5
MMSZ5239BHE	F4	8.65	9.10	9.56	20	10	600	0.25	3.000	7.0
MMSZ5240BHE	F5	9.50	10.00	10.50	20	17	600	0.25	3.000	8.0
MMSZ5241BHE	H1	10.45	11.00	11.55	20	22	600	0.25	2.000	8.4
MMSZ5242BHE	H2	11.40	12.00	12.60	20	30	600	0.25	1.000	9.1
MMSZ5243BHE	H3	12.35	13.00	13.65	9.5	13	600	0.25	0.500	9.9
MMSZ5244BHE	H4	13.30	14.00	14.70	9	15	600	0.25	0.100	10.0
MMSZ5245BHE	H5.	14.25	15.00	15.75	8.5	16	600	0.25	0.100	11.0
MMSZ5246BHE	J1.	15.20	16.00	16.80	7.8	17	600	0.25	0.100	12.0
MMSZ5247BHE	J2	16.15	17.00	17.85	7.5	19	600	0.25	0.100	13.0
MMSZ5248BHE	J3	17.10	18.00	18.90	7	21	600	0.25	0.100	14.0
MMSZ5250BHE	J5	19.00	20.00	21.00	6.2	25	600	0.25	0.100	15.0
MMSZ5251BHE	K1	20.90	22.00	23.10	5.6	29	600	0.25	0.100	17.0
MMSZ5252BHE	K2	22.80	24.00	25.20	5.2	33	600	0.25	0.100	18.0
MMSZ5253BHE	K3	23.75	25.00	26.25	5	35	600	0.25	0.100	19.0
MMSZ5254BHE	K4	25.65	27.00	28.35	5	41	600	0.25	0.100	21.0
MMSZ5255BHE	K5	26.60	28.00	29.40	4.5	44	600	0.25	0.100	21.0
MMSZ5256BHE	M1	28.50	30.00	31.50	4.2	49	600	0.25	0.100	23.0
MMSZ5257BHE	M2	31.35	33.00	34.65	3.8	58	700	0.25	0.100	25.0
MMSZ5258BHE	M3	34.20	36.00	37.80	3.4	70	700	0.25	0.100	27.0
MMSZ5259BHE	M4	37.05	39.00	40.95	3.2	80	800	0.25	0.100	30.0
MMSZ5260BHE	M5	40.85	43.00	45.15	3	93	900	0.25	0.100	33.0
MMSZ5261BHE	N1	44.65	47.00	49.35	2.7	105	1000	0.25	0.100	36.0
MMSZ5262BHE	N2	48.45	51.00	53.55	2.5	125	1100	0.25	0.100	39.0
MMSZ5263BHE	M8	53.20	56.00	58.80	2.2	150	1300	0.25	0.100	43.0
MMSZ5265BHE	N5	58.90	62.00	65.10	2	185	1400	0.25	0.100	47.0
MMSZ5267BHE	P2	71.25	75.00	78.75	1.7	270	1700	0.25	0.100	56.0

SMT-Type Zener Diode

MMSZ5221BHE-MMSZ5267BHE

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

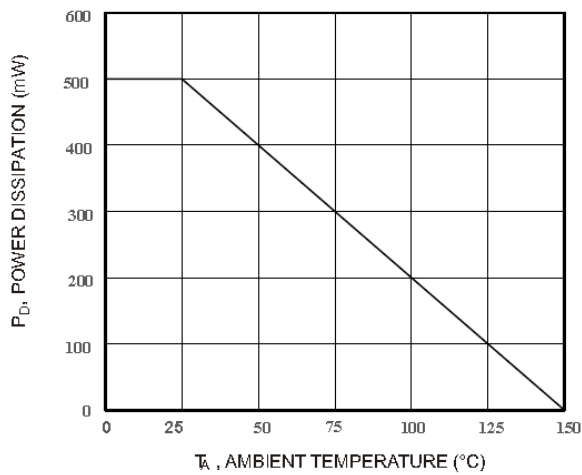


Fig. 1 Power Dissipation vs Ambient Temperature

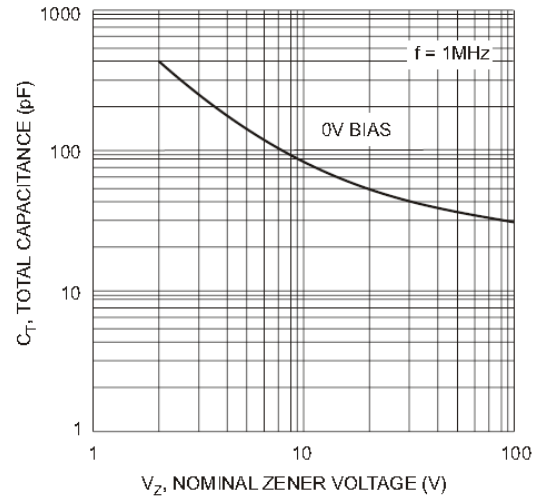


Fig. 2 Typical Capacitance

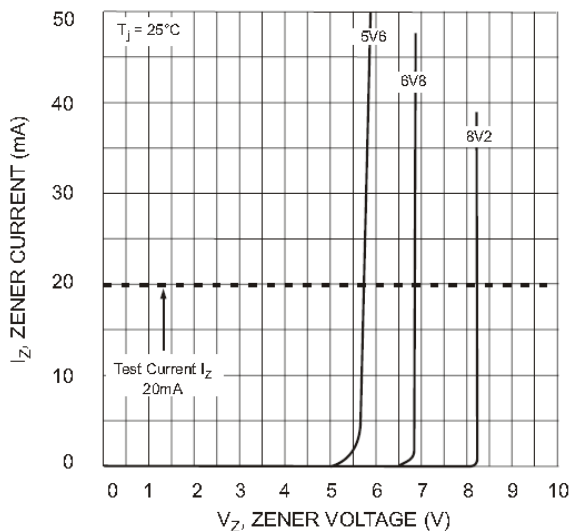


Fig. 3 Zener Breakdown Characteristics

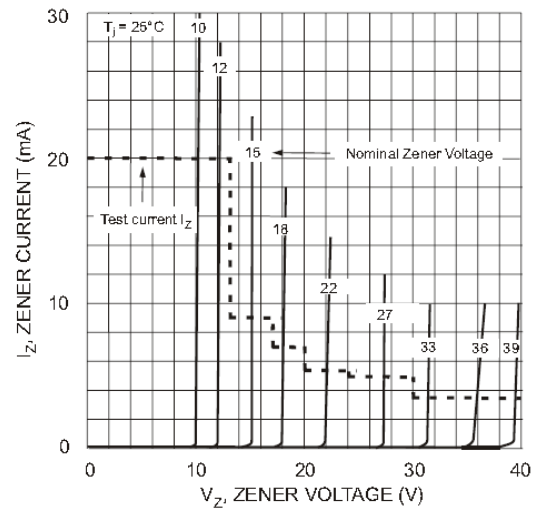


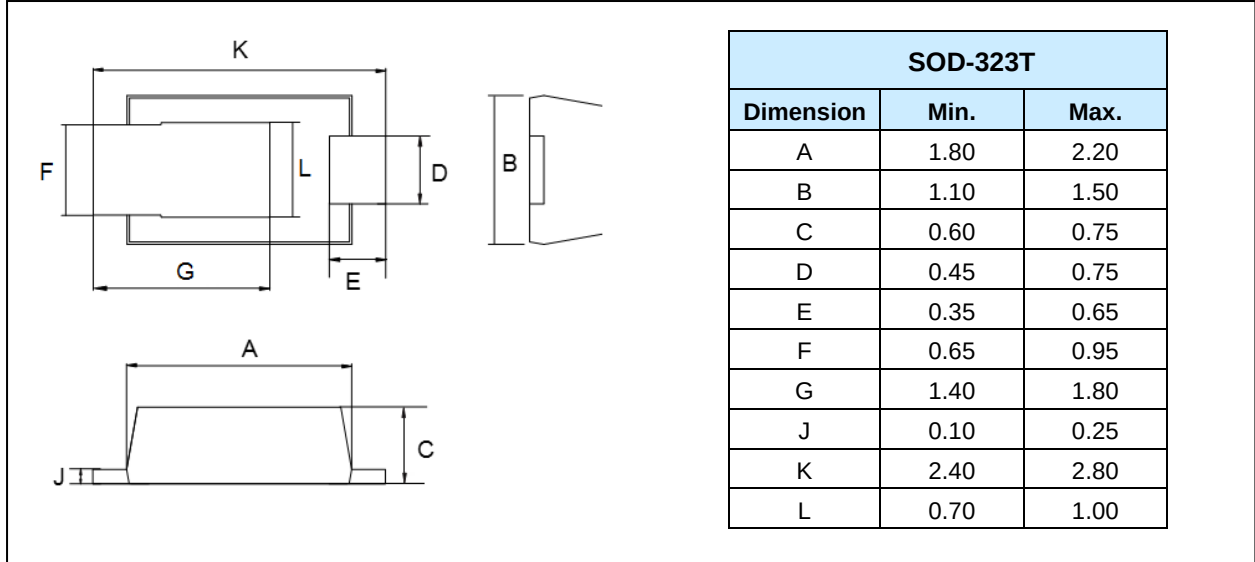
Fig. 4 Zener Breakdown Characteristics

SMT-Type Zener Diode

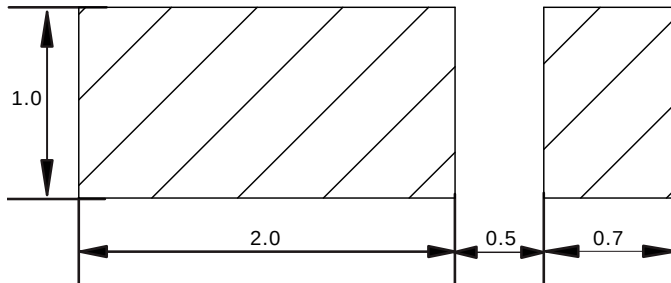
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PACKAGE OUTLINE (Unit: mm)

Plastic surface mounted package



MOUNTING PAD LAYOUT (Unit: mm)



PACKAGE INFORMATION

Part Number	Package	Shipping Quantity
MMSZ5221BHE – MMSZ5267BHE	SOD-323T	4000 pcs / Tape & Reel

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