

MMBZ5221BW SERIES

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 2.4 to 75 Volts **POWER** 200 mWatts

SOT-323

Unit: inch (mm)

FEATURES

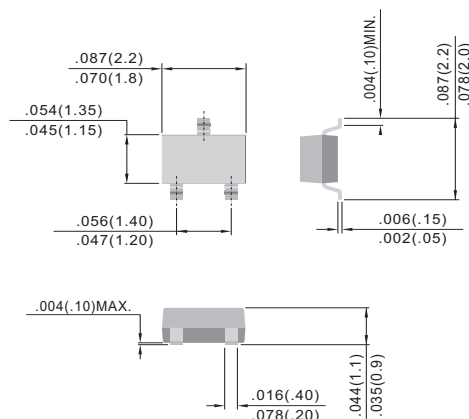
- Planar Die construction
- 200mW Power Dissipation
- Zener Voltages from 2.4V~75V
- Ideally Suited for Automated Assembly Processes
- Pb free product : 99% Sn above can meet RoHS environment substance dielectric request

MECHANICAL DATA

Case: SOT-323, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.0048 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation @ $T_A = 25^\circ\text{C}$ (Note A)	P_D	200	mW
Operating Junction and Storage Temperature Range	T_J	-55 to +150	$^\circ\text{C}$

NOTES:

A. Mounted on 5.0mm²(.013mm thick) land areas.



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Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code	Package
	V _Z @ I _{ZT}			Z _{zT} @ I _{ZT}		Z _{zK} @ I _{zK}		I _R @ V _R			
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V		
MMBZ5221BW	2.4	2.28	2.52	30	20.0	1200	0.25	100	1.0	C1	SOT-323
MMBZ5222BW	2.5	2.38	2.63	30	20.0	1250	0.25	100	1.0	C2	SOT-323
MMBZ5223BW	2.7	2.57	2.84	30	20.0	1300	0.25	75	1.0	C3	SOT-323
MMBZ5225BW	3.0	2.85	3.15	30	20.0	1600	0.25	50	1.0	C5	SOT-323
MMBZ5226BW	3.3	3.14	3.47	28	20.0	1600	0.25	25	1.0	D1	SOT-323
MMBZ5227BW	3.6	3.42	3.78	24	20.0	1700	0.25	15	1.0	D2	SOT-323
MMBZ5228BW	3.9	3.71	4.10	23	20.0	1900	0.25	10	1.0	D3	SOT-323
MMBZ5229BW	4.3	4.09	4.52	22	20.0	2000	0.25	5.0	1.0	D4	SOT-323
MMBZ5230BW	4.7	4.47	4.94	19	20.0	1900	0.25	5.0	2.0	D5	SOT-323
MMBZ5231BW	5.1	4.85	5.36	17	20.0	1600	0.25	5.0	2.0	E1	SOT-323
MMBZ5232BW	5.6	5.32	5.88	11	20.0	1600	0.25	5.0	3.0	E2	SOT-323
MMBZ5234BW	6.2	5.89	6.51	7	20.0	1000	0.25	5.0	4.0	E4	SOT-323
MMBZ5235BW	6.8	6.46	7.14	5	20.0	750	0.25	3.0	5.0	E5	SOT-323
MMBZ5236BW	7.5	7.13	7.88	6	20.0	500	0.25	3.0	6.0	F1	SOT-323
MMBZ5237BW	8.2	7.79	8.61	8	20.0	500	0.25	3.0	6.0	F2	SOT-323
MMBZ5239BW	9.1	8.65	9.56	10	20.0	600	0.25	3.0	6.5	F4	SOT-323
MMBZ5240BW	10	9.50	10.50	17	20.0	600	0.25	3.0	8.0	F5	SOT-323
MMBZ5241BW	11	10.45	11.55	22	20.0	600	0.25	3.0	8.4	H1	SOT-323
MMBZ5242BW	12	11.40	12.60	30	20.0	600	0.25	2.0	9.1	H2	SOT-323
MMBZ5243BW	13	12.35	13.65	13	9.5	600	0.25	1.0	9.9	H3	SOT-323
MMBZ5244BW	14	13.30	14.70	15	9.0	600	0.25	1.0	10.5	H4	SOT-323
MMBZ5245BW	15	14.25	15.75	16	8.5	600	0.25	1.0	11.0	H5	SOT-323
MMBZ5246BW	16	15.20	16.80	17	7.8	600	0.25	0.1	12.0	J1	SOT-323
MMBZ5247BW	17	16.15	17.85	19	7.5	600	0.25	0.1	13.0	J2	SOT-323
MMBZ5248BW	18	17.10	18.90	21	7.0	600	0.25	0.1	14.0	J3	SOT-323
MMBZ5250BW	20	19.00	21.00	25	6.2	600	0.25	0.1	15.0	J5	SOT-323
MMBZ5251BW	22	20.90	23.10	29	5.6	600	0.25	0.1	17.0	K1	SOT-323
MMBZ5252BW	24	22.80	25.20	33	5.2	600	0.25	0.1	18.0	K2	SOT-323
MMBZ5254BW	27	25.65	28.35	41	5.0	600	0.25	0.1	21.0	K4	SOT-323
MMBZ5255BW	28	26.60	29.40	44	4.5	600	0.25	0.1	21.0	K5	SOT-323
MMBZ5256BW	30	28.50	31.50	49	4.2	600	0.25	0.1	23.0	M1	SOT-323
MMBZ5257BW	33	31.35	34.65	58	3.8	700	0.25	0.1	25.0	M2	SOT-323
MMBZ5258BW	36	34.20	37.80	70	3.4	700	0.25	0.1	27.0	M3	SOT-323
MMBZ5259BW	39	37.05	40.95	80	3.2	800	0.25	0.1	30.0	M4	SOT-323
MMBZ5260BW	43	40.85	45.15	93	3.0	900	0.25	0.1	33.0	M5	SOT-323
MMBZ5261BW	47	44.65	49.35	105	2.7	1000	0.25	0.1	36.0	N1	SOT-323
MMBZ5262BW	51	48.45	53.55	125	2.5	1100	0.25	0.1	39.0	N2	SOT-323
MMBZ5263BW	56	53.20	58.80	150	2.2	1300	0.25	0.1	43	N3	SOT-323
MMBZ5264BW	60	57.00	63.00	170	2.1	1400	0.25	0.1	46	N4	SOT-323
MMBZ5265BW	62	58.90	65.10	185	2.0	1500	0.25	0.1	47	N5	SOT-323
MMBZ5266BW	68	64.60	71.40	230	1.8	1600	0.25	0.1	52	P1	SOT-323
MMBZ5267BW	75	71.25	78.75	270	1.7	1400	0.25	0.1	56	P2	SOT-323

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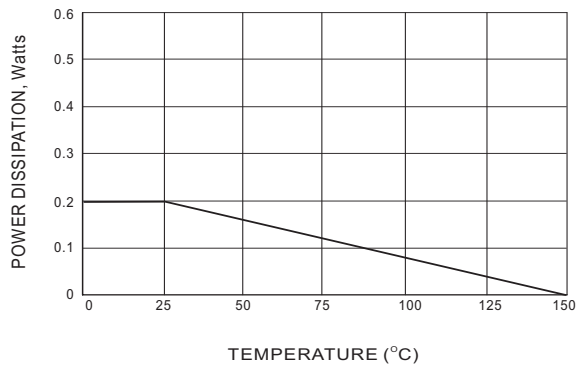


Fig.1 STEADY STATE POWER DERATING

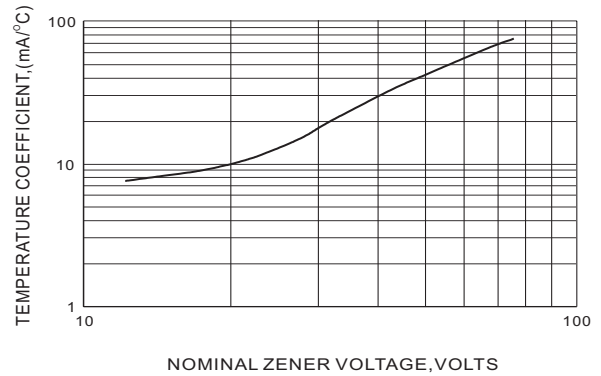


Fig.2 TEMPERATURE COEFFICIENTS

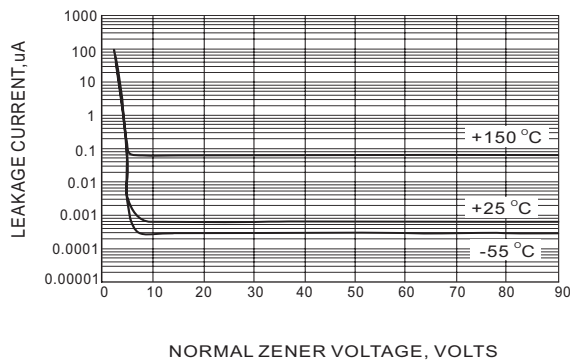


Fig.3 TYPICAL LEAKAGE CURRENT

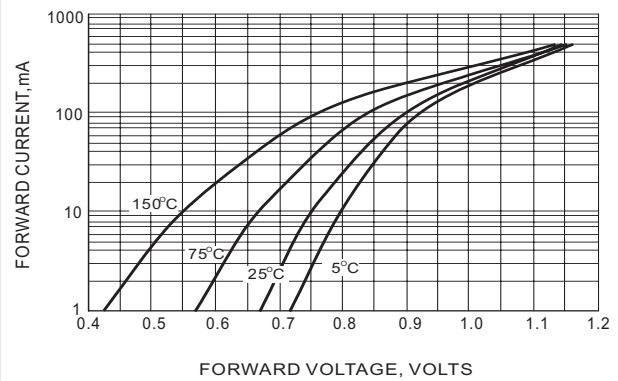
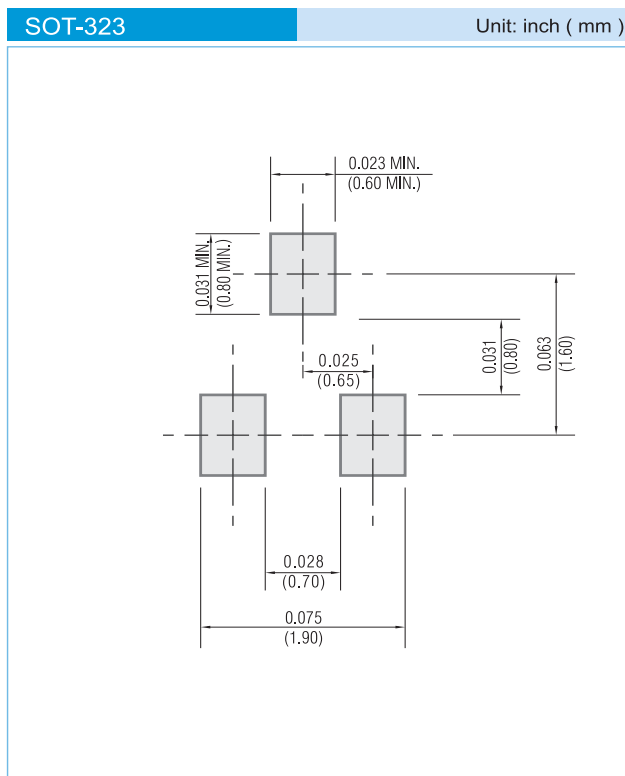


Fig.4 TYPICAL FORWARD VOLTAGE

MMBZ5221BW SERIES

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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