



# MMBZ5229AW SERIES

## SURFACE MOUNT SILICON ZENER DIODES

**VOLTAGE** 4.3 to 51 Volts

**POWER** 200 mWatts

**SOT-323**

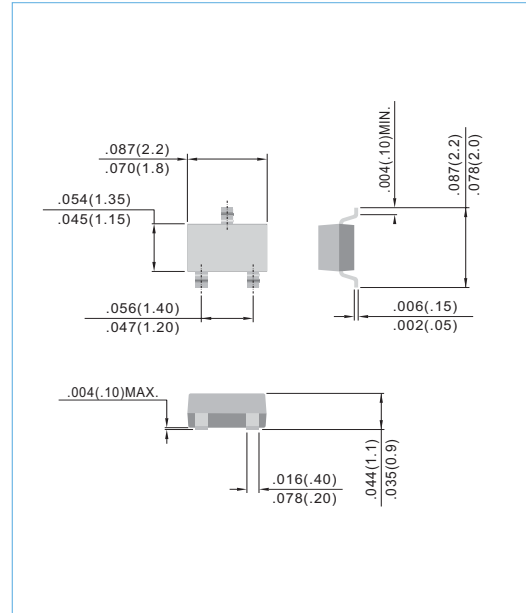
Unit: inch (mm)

### FEATURES

- Planar Die construction
- 200mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- Pb free product : 99% Sn above can meet RoHS environment substance diective request

### MECHANICAL DATA

- Case: SOT-323, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Approx. Weight: 0.0048 grams
- Mounting Position: Any



### 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 5.0mm<sup>2</sup>(.013mm thick) land areas.



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Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code	Package
	V <sub>Z</sub> @ I <sub>ZT</sub>			Z <sub>1T</sub> @ I <sub>ZT</sub>		Z <sub>1K</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>			
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V		
MMBZ5229AW	4.3	4.21	4.39	22	20.0	2000	0.25	5.0	1.0	D4	SOT-323
MMBZ5230AW	4.7	4.61	4.79	19	20.0	1900	0.25	5.0	2.0	D5	SOT-323
MMBZ5231AW	5.1	5.00	5.20	17	20.0	1600	0.25	5.0	2.0	E1	SOT-323
MMBZ5232AW	5.6	5.49	5.71	11	20.0	1600	0.25	5.0	3.0	E2	SOT-323
MMBZ5234AW	6.2	6.08	6.32	7	20.0	1000	0.25	5.0	4.0	E4	SOT-323
MMBZ5235AW	6.8	6.66	6.94	5	20.0	750	0.25	3.0	5.0	E5	SOT-323
MMBZ5236AW	7.5	7.35	7.65	6	20.0	500	0.25	3.0	6.0	F1	SOT-323
MMBZ5237AW	8.2	8.04	8.36	8	20.0	500	0.25	3.0	6.0	F2	SOT-323
MMBZ5239AW	9.1	8.92	9.28	10	20.0	600	0.25	3.0	6.5	F4	SOT-323
MMBZ5240AW	10	9.80	10.20	17	20.0	600	0.25	3.0	8.0	F5	SOT-323
MMBZ5241AW	11	10.78	11.22	22	20.0	600	0.25	3.0	8.4	H1	SOT-323
MMBZ5242AW	12	11.76	12.24	30	20.0	600	0.25	2.0	9.1	H2	SOT-323
MMBZ5243AW	13	12.74	13.26	13	9.5	600	0.25	1.0	9.9	H3	SOT-323
MMBZ5244AW	14	13.72	14.28	15	9.0	600	0.25	0.5	10.5	H4	SOT-323
MMBZ5245AW	15	14.70	15.30	16	8.5	600	0.25	0.5	11.0	H5	SOT-323
MMBZ5246AW	16	15.68	16.32	17	7.8	600	0.25	0.1	12.0	J1	SOT-323
MMBZ5247AW	17	16.66	17.34	19	7.5	600	0.25	0.1	13.0	J2	SOT-323
MMBZ5248AW	18	17.64	18.36	21	7.0	600	0.25	0.1	14.0	J3	SOT-323
MMBZ5250AW	20	19.60	20.40	25	6.2	600	0.25	0.1	15.0	J5	SOT-323
MMBZ5251AW	22	21.56	22.44	29	5.6	600	0.25	0.1	17.0	K1	SOT-323
MMBZ5252AW	24	23.52	24.48	33	5.2	600	0.25	0.1	18.0	K2	SOT-323
MMBZ5254AW	27	26.46	27.54	41	5.0	600	0.25	0.1	21.0	K4	SOT-323
MMBZ5255AW	28	27.44	28.56	44	4.5	600	0.25	0.1	21.0	K5	SOT-323
MMBZ5256AW	30	29.40	30.60	49	4.2	600	0.25	0.1	23.0	M1	SOT-323
MMBZ5257AW	33	32.34	33.66	58	3.8	700	0.25	0.1	25.0	M2	SOT-323
MMBZ5258AW	36	35.28	36.72	70	3.4	700	0.25	0.1	27.0	M3	SOT-323
MMBZ5259AW	39	38.22	39.78	80	3.2	800	0.25	0.1	30.0	M4	SOT-323
MMBZ5260AW	43	42.14	43.86	93	3.0	900	0.25	0.1	33	M5	SOT-323
MMBZ5261AW	47	46.06	47.94	105	2.7	1000	0.25	0.1	36	N1	SOT-323
MMBZ5262AW	51	49.98	52.02	125	2.5	1100	0.25	0.1	39	N2	SOT-323



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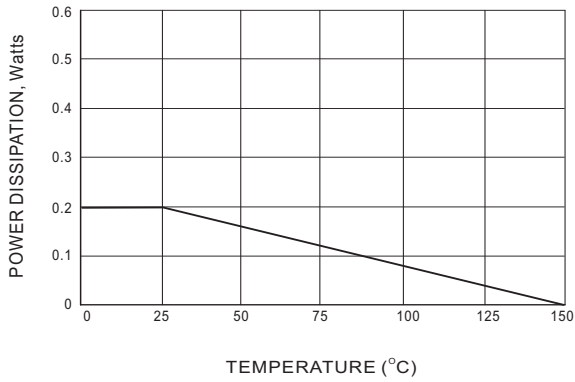


Fig.1 STEADY STATE POWER DERATING

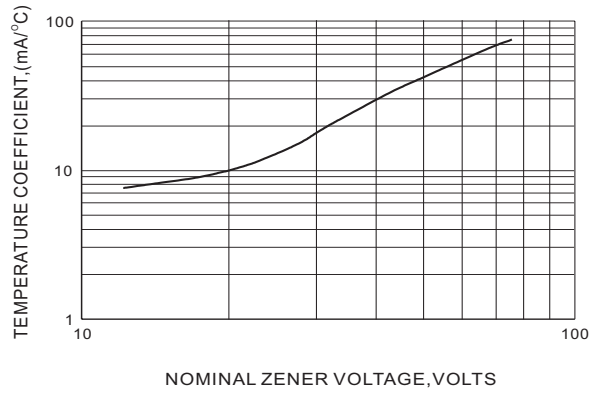


Fig.2 TEMPERATURE COEFFICIENTS

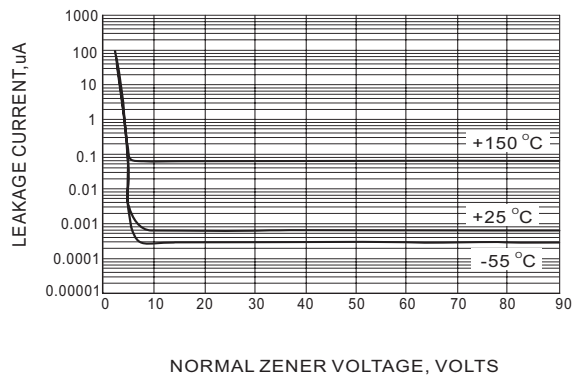


Fig.3 TYPICAL LEAKAGE CURRENT

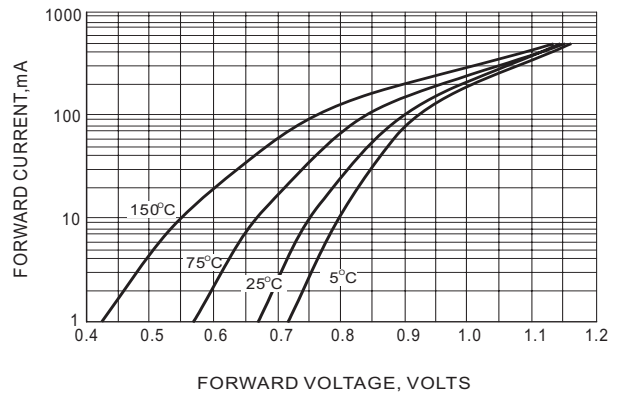
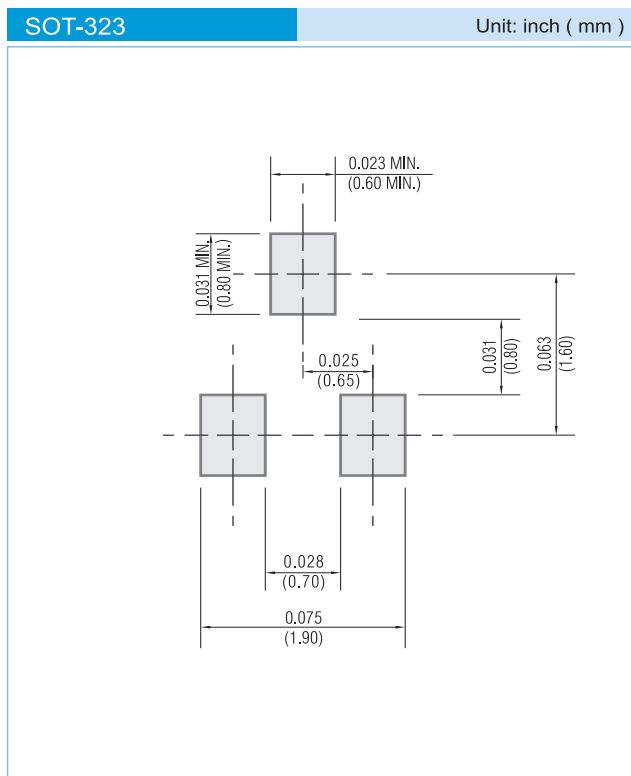


Fig.4 TYPICAL FORWARD VOLTAGE



## MMBZ5229AW 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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