

## FEATURES

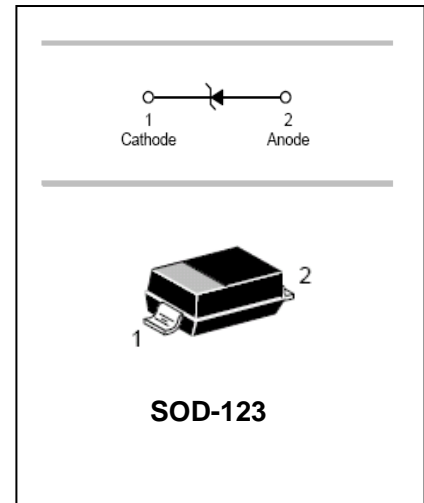
- Planar die construction.
- 500mW power dissipation.
- General purpose, medium current.
- Ideally suited for automated assembly processes.

## APPLICATIONS

- Zener diode.
- Ultra-small surface mount package.

## ORDERING INFORMATION

Type No.	Marking	Package Code
MMSZ5221B-MMSZ5262B	See table 2	SOD-123



## MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward Voltage @ I <sub>F</sub> =10mA	V <sub>F</sub>	0.9	V
Power Dissipation	P <sub>d</sub>	500	mW
Thermal resistance, junction to ambient air	R <sub>θjA</sub>	350	°C/W
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature range	T <sub>stg</sub>	-65 to +150	°C

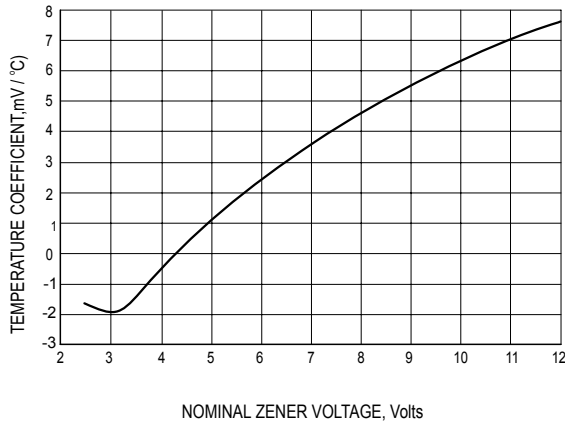
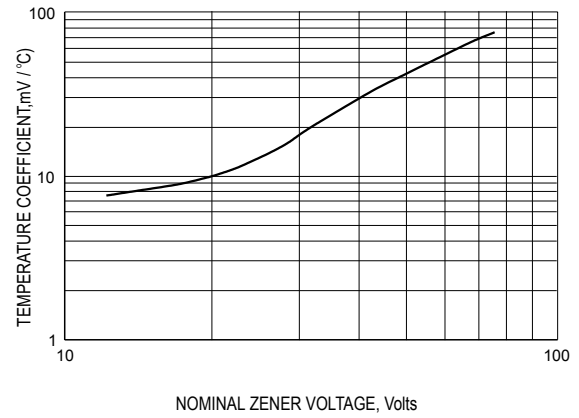
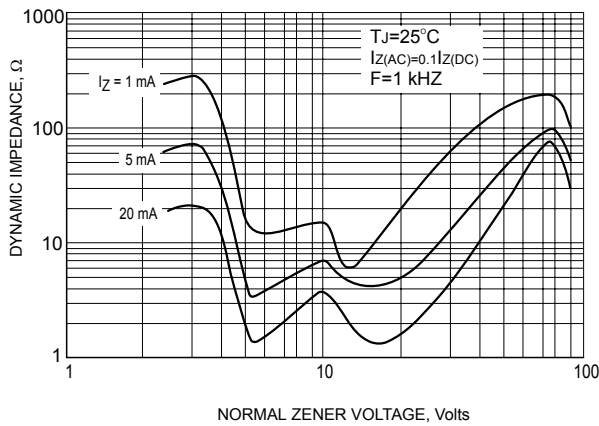
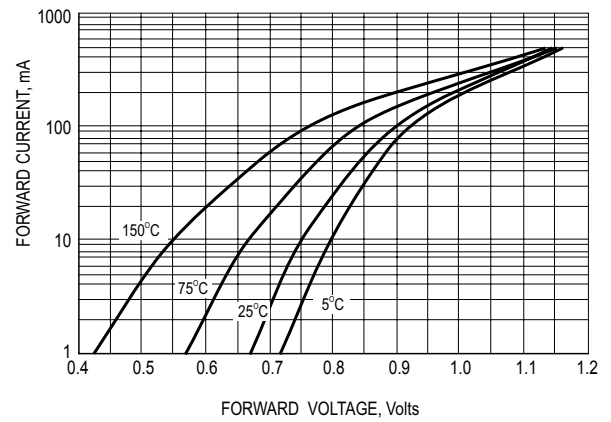
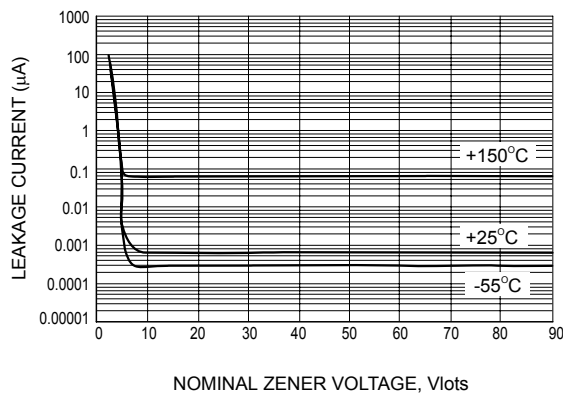
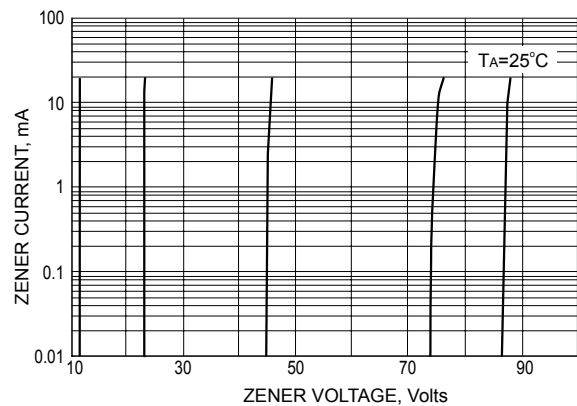
Notes: 1. Device mounted on ceramic PCB; 7.6 mm x 9.4 mm x 0.87 mm with pad areas 25 mm<sup>2</sup>.

2. Tested with pulses, T<sub>p</sub> ≤ 1.0ms.

**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

Type Number	Marking	Zener Voltage Range			Test Current	Maximum Zener Impedance		Maximum Reverse Leakage Current	
		V <sub>z</sub> @I <sub>ZT</sub>			I <sub>ZT</sub>	Z <sub>zT</sub> @I <sub>ZT</sub>	Z <sub>zK</sub> @I <sub>ZK</sub> =0.25mA	I <sub>R</sub>	@V <sub>R</sub>
		Nom(V)	Min(V)	Max(V)	mA	Ω		μA	V
MMSZ5221B	<b>C1</b>	2.4	2.28	2.52	20	30	1200	100	1.0
MMSZ5223B	<b>C3</b>	2.7	2.57	2.84	20	30	1300	75	1.0
MMSZ5225B	<b>C5</b>	3.0	2.85	3.15	20	30	1600	50	1.0
MMSZ5226B	<b>G1</b>	3.3	3.14	3.47	20	28	1600	25	1.0
MMSZ5227B	<b>G2</b>	3.6	3.42	3.78	20	24	1700	15	1.0
MMSZ5228B	<b>G3</b>	3.9	3.71	4.10	20	23	1900	10	1.0
MMSZ5229B	<b>G4</b>	4.3	4.09	4.52	20	22	2000	5.0	1.0
MMSZ5230B	<b>G5</b>	4.7	4.47	4.94	20	19	1900	5.0	2.0
MMSZ5231B	<b>E1</b>	5.1	4.85	5.36	20	17	1600	5.0	2.0
MMSZ5232B	<b>E2</b>	5.6	5.32	5.88	20	11	1600	5.0	3.0
MMSZ5233B	<b>E3</b>	6.0	5.70	6.30	20	7	1600	5.0	3.5
MMSZ5234B	<b>E4</b>	6.2	5.89	6.51	20	7	1000	5.0	4.0
MMSZ5235B	<b>E5</b>	6.8	6.46	7.14	20	5	750	3.0	5.0
MMSZ5236B	<b>F1</b>	7.5	7.13	7.88	20	6	500	3.0	6.0
MMSZ5237B	<b>F2</b>	8.2	7.79	8.61	20	8	500	3.0	6.5
MMSZ5238B	<b>F3</b>	8.7	8.27	9.14	20	8	600	3.0	6.5
MMSZ5239B	<b>F4</b>	9.1	8.65	9.56	20	10	600	3.0	7.0
MMSZ5240B	<b>F5</b>	10	9.50	10.50	20	17	600	3.0	8.0
MMSZ5241B	<b>H1</b>	11	10.45	11.55	20	22	600	2.0	8.4
MMSZ5242B	<b>H2</b>	12	11.40	12.60	20	30	600	1.0	9.1
MMSZ5243B	<b>H3</b>	13	12.35	13.65	9.5	13	600	0.5	9.9
MMSZ5245B	<b>H5</b>	15	14.25	15.75	8.5	16	600	0.1	11
MMSZ5246B	<b>J1</b>	16	15.20	16.80	7.8	17	600	0.1	12
MMSZ5248B	<b>J3</b>	18	17.10	18.90	7.0	21	600	0.1	14
MMSZ5250B	<b>F5</b>	20	19.00	21.00	6.2	25	600	0.1	15
MMSZ5251B	<b>K1</b>	22	20.90	23.10	5.6	29	600	0.1	17
MMSZ5252B	<b>K2</b>	24	22.80	25.20	5.2	33	600	0.1	18
MMSZ5254B	<b>K4</b>	27	25.65	28.35	5.0	41	600	0.1	21
MMSZ5255B	<b>K5</b>	28	26.60	29.40	4.5	44	600	0.1	21
MMSZ5256B	<b>M1</b>	30	28.50	31.5	4.2	49	600	0.1	23
MMSZ5257B	<b>M2</b>	33	31.35	34.65	3.8	58	700	0.1	25
MMSZ5258B	<b>M3</b>	36	34.20	37.80	3.4	70	700	0.1	27
MMSZ5259B	<b>M4</b>	39	37.05	40.95	3.2	80	800	0.1	30
MMSZ5260B	<b>M5</b>	43	40.85	45.15	3.0	93	900	0.1	33
MMSZ5261B	<b>N1</b>	47	44.65	49.35	2.7	105	1000	0.1	36

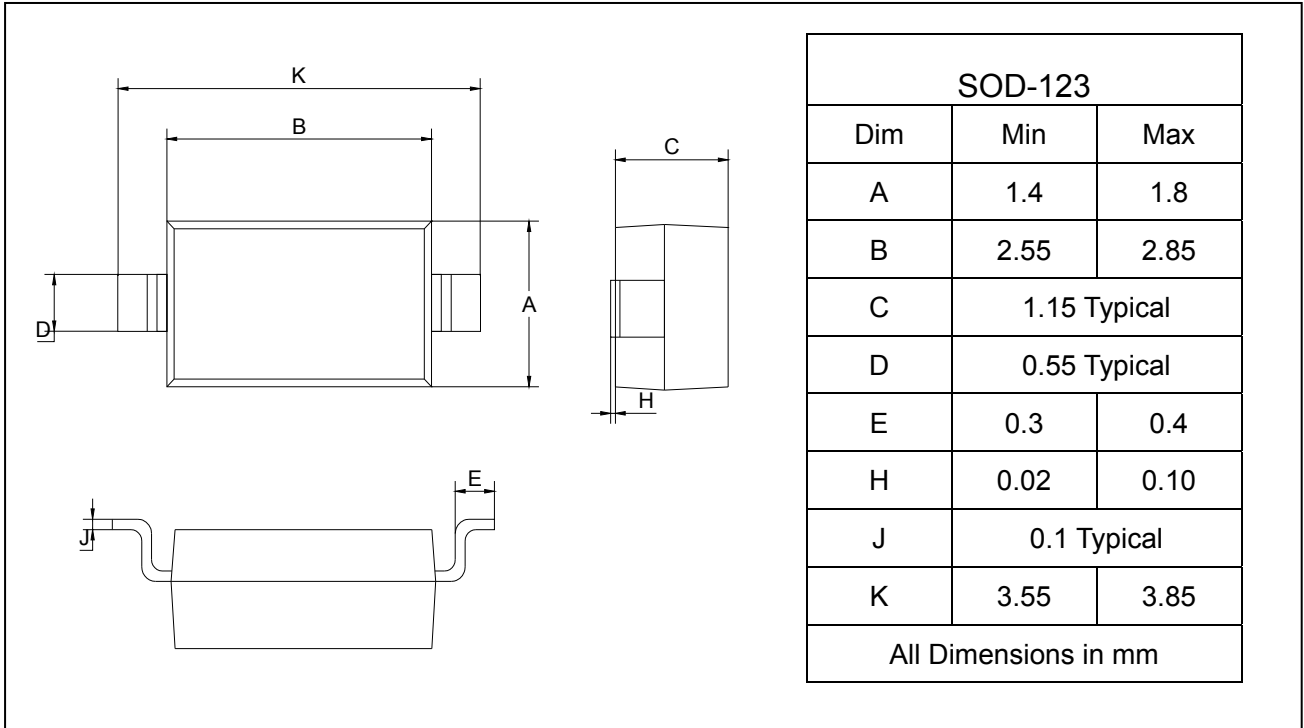
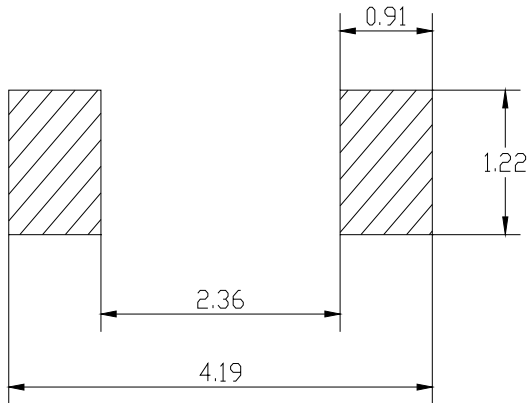
Type Number	Marking	Zener Voltage Range			Test Current	Maximum Zener Impedance		Maximum Reverse Leakage Current	
		$V_Z @ I_{ZT}$			$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}=0.25mA$	$I_R$	@ $V_R$
		Nom(V)	Min(V)	Max(V)	mA	$\Omega$		$\mu A$	V
MMSZ5262B	<b>N2</b>	51	48.45	53.55	2.5	125	1100	0.1	39

**TYPICAL CHARACTERISTICS @  $T_a=25^\circ C$  unless otherwise specified**

**TYPICAL REVERSE CURRENT**

**STEADY STATE POWER DERATING**

**EFFECT OF ZENER VOLTAGE ON ZENER IMPEDANCE**

**TYPICAL FORWARD VOLTAGE**

**TYPICAL LEAKGE CURRENT**

**ZENER VOLTAGE V.S. ZENER CURRENT**

**PACKAGE OUTLINE**

Plastic surface mounted package

SOD-123


**SOLDERING FOOTPRINT**


Unit: mm

PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SOD-123	3000/REEL	90000	40X20X22	5.00	4.00

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