

SINLOON®

貼片型穩壓二極管 SOT-23  
Voltage: 2.4V ~ 51V / 350mA

MMBZ5221B-MMBZ5262B  
SURFACE MOUNT ZENER DIODE

FEATURE:

- ◆ Planer Die Construction
- ◆ 350mA Power Dissipation
- ◆ 5% Standard Vz Tolerance
- ◆ 2.4V ~ 51V Nominal Zener Voltage
- ◆ Designed for Surface Mount Application
- ◆ Plastic Material - UL Recognition Flammability Classification 94V-0

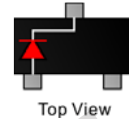
Figure



MECHANICAL CHARACTERISTICS:

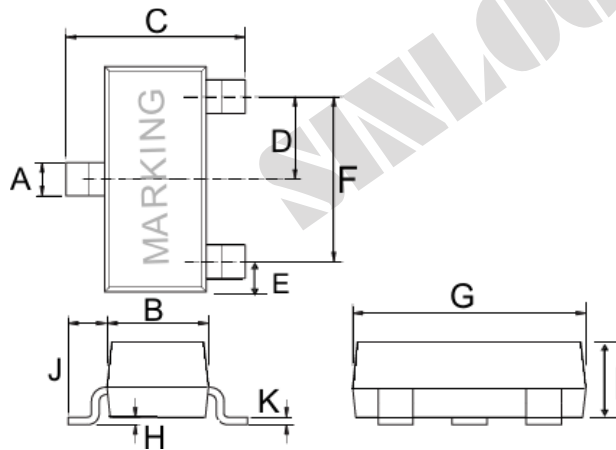
- ◆ Case: SOT-23 Molded Plastic
- ◆ Weight: 0.008 Grams (approx)
- ◆ Marking: Body top
- ◆ Terminals: Plated leads solderable per MIL-STD-202, Method 208.
- ◆ Mounting: Position any
- ◆ Lead Free for Rohm / Lead free version and "LF" suffix to part number.

Value : Electrical Symbol



DIMENSION: Unit:mm

SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.19	1.4
C	2.1	2.5
D	0.89	1.05
E	0.45	0.61
F	1.78	2.05
G	2.65	3.05
H	0.013	0.15
I	0.89	1.1
J	0.45	0.61
K	0.076	0.178



Maximum Ratings @ $T_A=25^\circ\text{C}$  unless otherwise specified

Characteristics	Symbol	Value	Unit
Peak Pulse Power Dissipation at $T_A = 25^\circ\text{C}$ (note 1)	$P_D$	350	mW
Forward Voltage @ $I_F = 100\text{mA}$	$V_F$	0.9	V
Thermal Resistance Junction to Ambient (note 1, 2)	$R_{\theta JA}$	357	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-60+150	$^\circ\text{C}$

Note: 1 Mounted on FR-4 PCB with minimum recommended pad layout.

Note: 2 Thermal resistance measurement obtained via infrared scan method.

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□ Electrical Characteristics Single Diode @T<sub>A</sub>=25°C unless otherwise specified

Type Number* <sup>1</sup>	Device Marking* <sup>2</sup>		Zener Voltage Range* <sup>3</sup>			Maximum Zener Impedance* <sup>4</sup>				Max. Reverse		TTC* <sup>5</sup>
			V <sub>Z</sub> (@) I <sub>ZT</sub>			Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZT</sub> @ I <sub>ZT</sub>		Leakage Current		Voltage
	F1*	F2*	Nom(V)	Min(V)	Max(V)	(Ω)	(mA)	(Ω)	(mA)	I <sub>R</sub> (μA)	@V <sub>R</sub> (V)	(%/°C)
MMBZ5221B	C1	KC1	2.40	2.29	2.52	30.0	20.0	1200	0.25	100	1.0	-0.075
MMBZ5222B	C2	KC2	2.50	2.38	2.63	30.0	20.0	1250	0.25	100	1.0	-0.075
MMBZ5223B	C3	KC3	2.70	2.57	2.84	30.0	20.0	1300	0.25	75	1.0	-0.075
MMBZ5225B	C5	KC5	3.00	2.86	3.15	29.0	20.0	1600	0.25	50	1.0	-0.075
MMBZ5226B	D1	KD1	3.30	3.14	3.47	28.0	20.0	1600	0.25	25	1.0	-0.070
MMBZ5227B	D2	KD2	3.60	3.43	3.78	24.0	20.0	1700	0.25	15	1.0	-0.065
MMBZ5228B	D3	KD3	3.90	3.71	4.10	23.0	20.0	1900	0.25	10	1.0	-0.060
MMBZ5229B	D4	KD4	4.30	4.10	4.52	22.0	20.0	2000	0.25	5.0	1.0	-0.055
MMBZ5230B	D5	KD5	4.70	4.48	4.94	19.0	20.0	1600	0.25	5.0	2.0	±0.030
MMBZ5231B	E1	KE1	5.10	4.86	5.36	17.0	20.0	1600	0.25	5.0	2.0	±0.030
MMBZ5232B	E2	KE2	5.60	5.33	5.88	11.0	20.0	1600	0.25	5.0	3.0	+0.038
MMBZ5233B	E3	KE3	6.00	5.71	6.30	7.0	20.0	1000	0.25	5.0	3.5	+0.038
MMBZ5234B	E4	KE4	6.20	5.90	6.51	7.0	20.0	750	0.25	5.0	4.0	+0.045
MMBZ5235B	E5	KE5	6.80	6.48	7.14	5.0	20.0	500	0.25	3.0	5.0	+0.050
MMBZ5236B	F1	KF1	7.50	7.14	7.88	6.0	20.0	500	0.25	3.0	6.0	+0.058
MMBZ5237B	F2	KF2	8.20	7.81	8.61	8.0	20.0	600	0.25	3.0	6.5	+0.062
MMBZ5238B	F3	KF3	8.70	8.29	9.14	8.0	20.0	600	0.25	3.0	6.5	+0.065
MMBZ5239B	F4	KF4	9.10	8.67	9.56	10.0	20.0	600	0.25	3.0	7.0	+0.068
MMBZ5240B	F5	KF5	10.00	9.52	10.50	17.0	20.0	600	0.25	3.0	8.0	+0.075
MMBZ5241B	H1	KH1	11.00	10.48	11.55	22.0	20.0	600	0.25	2.0	8.4	+0.076
MMBZ5242B	H2	KH2	12.00	11.43	12.60	30.0	20.0	600	0.25	1.0	9.1	+0.077
MMBZ5243B	H3	KH3	13.00	12.38	13.65	13.0	9.5	600	0.25	0.5	9.9	+0.079
MMBZ5245B	H5	KH5	15.00	14.29	15.75	16.0	8.5	600	0.25	0.1	11	+0.082
MMBZ5246B	J1	KJ1	16.00	15.24	16.80	17.0	7.8	600	0.25	0.1	12	+0.083
MMBZ5248B	J3	KJ3	18.00	17.14	18.90	21.0	7.0	600	0.25	0.1	14	+0.085
MMBZ5250B	J5	KJ5	20.00	19.05	21.00	25.0	6.2	600	0.25	0.1	15	+0.086
MMBZ5251B	K1	KK1	22.00	20.95	23.10	29.0	5.6	600	0.25	0.1	17	+0.087
MMBZ5252B	K2	KK2	24.00	22.86	25.20	33.0	5.2	600	0.25	0.1	18	+0.087
MMBZ5254B	K4	KK4	27.00	25.71	28.35	41.0	4.6	600	0.25	0.1	21	+0.090
MMBZ5255B	K5	KK5	28.00	26.67	29.40	44.0	4.5	600	0.25	0.1	21	+0.091
MMBZ5256B	M1	KM1	30.00	28.57	31.50	49.0	4.2	600	0.25	0.1	23	+0.091
MMBZ5257B	M2	KM2	33.00	31.43	34.65	58.0	3.8	700	0.25	0.1	25	+0.092
MMBZ5258B	M3	KM3	36.00	34.29	37.80	70.0	3.4	700	0.25	0.1	27	+0.093
MMBZ5259B	M4	KM4	39.00	37.14	40.95	80.0	3.2	800	0.25	0.1	30	+0.094
MMBZ5260B	M5	KM5	43.00	40.95	45.15	93.0	3.0	900	0.25	0.1	33	+0.095
MMBZ5261B	N1	KN1	47.00	44.76	49.35	105.0	2.7	1000	0.25	0.1	36	+0.095
MMBZ5262B	N2	KN2	51.00	48.57	53.55	125.0	2.5	1100	0.25	0.1	39	+0.096

- Remark:
- \*1 Type number listed have standard tolerance on the nominal zener voltage of ±5%.
  - \*2 Marking code for Top View
  - \*3 Measure with pulse test current I<sub>Z</sub> at ambient temperature 25°C.
  - \*4 f=1KHz
  - \*5 TTC: Typical Temperature Coefficient of Zener Voltage.
  - F1\* Product Factory one.
  - F2\* Product Factory two.

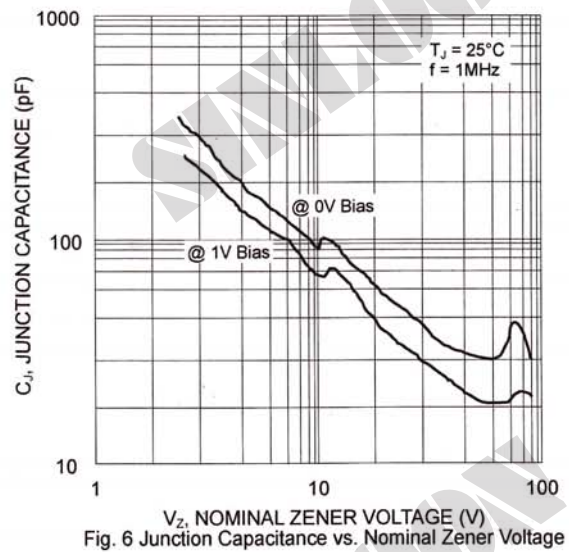
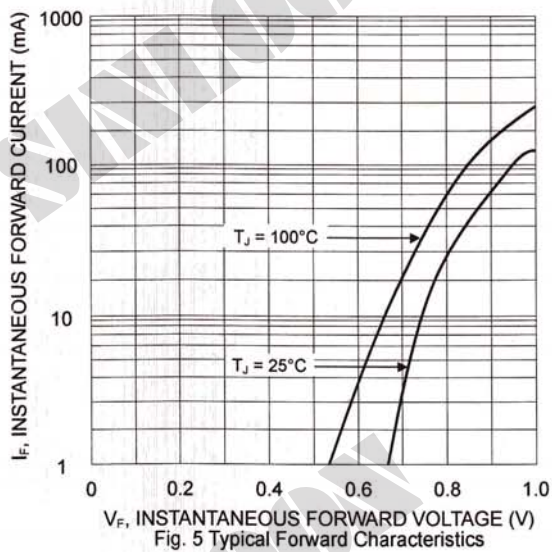
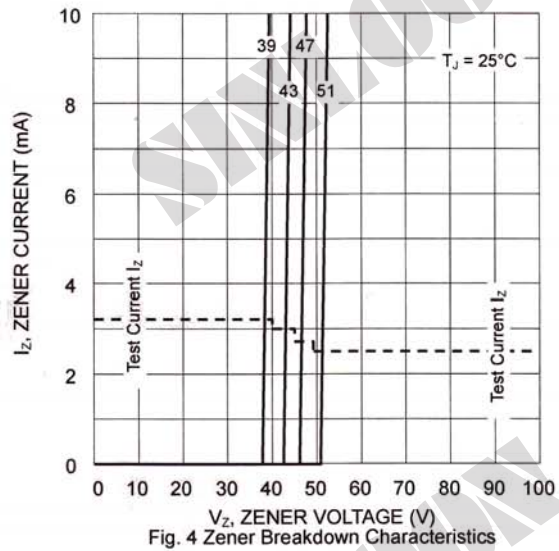
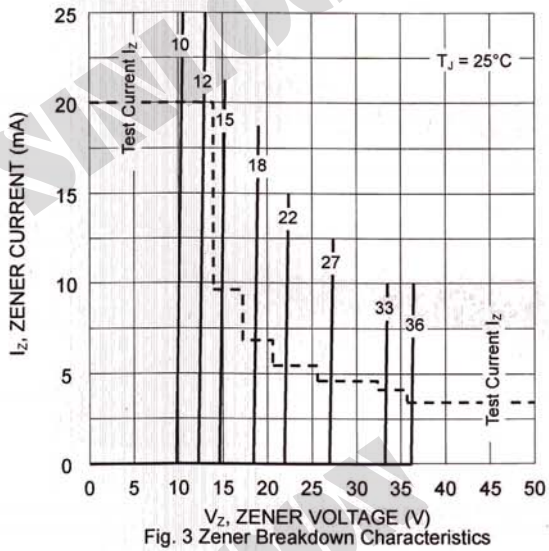
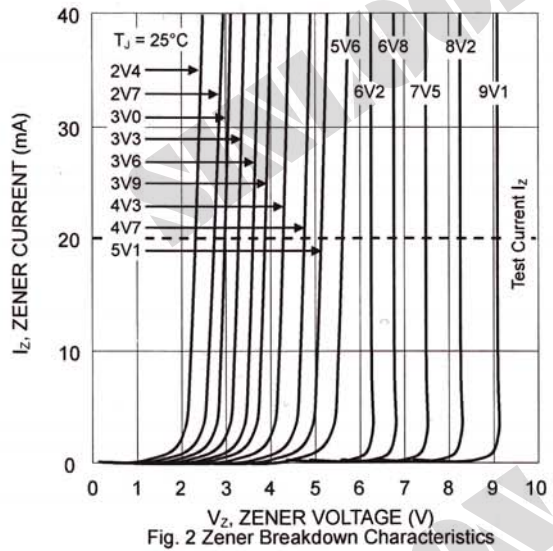
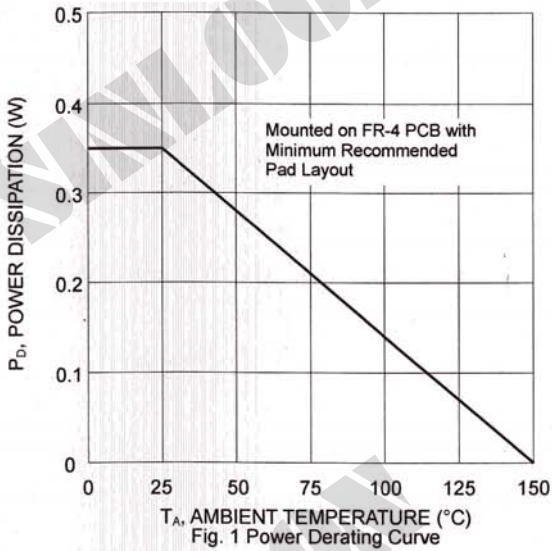
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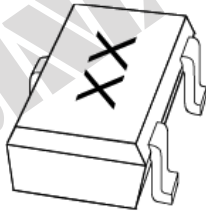
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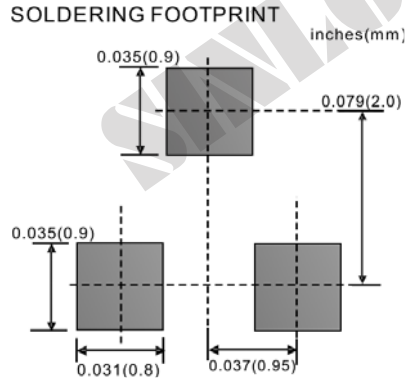
**SURFACE MOUNT ZENER DIODE**

**Marking Information**



XX: Device Code see Table Page 2

**Recommended Footprint**



**COMMON PACKING INFORMATION:**

Reel Diameter (mm)	Quantity (Pcs)	Inner Box Size (mm)	Carton Size (mm)	Quantity	G/W
178	3000	L: 187 x W:187 x H: 63	L:390 x W:240 x H:420	15,000	10Kg

Reel Diameter : Fig-1

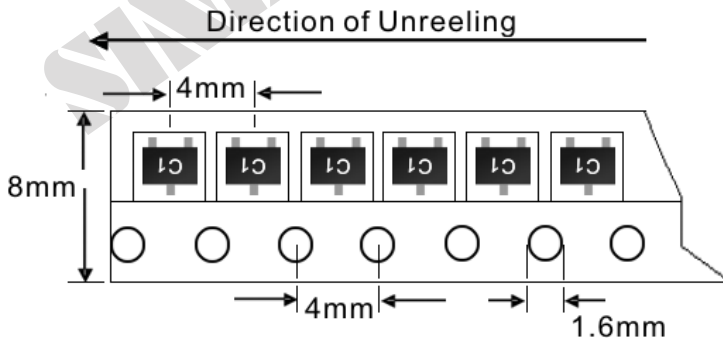


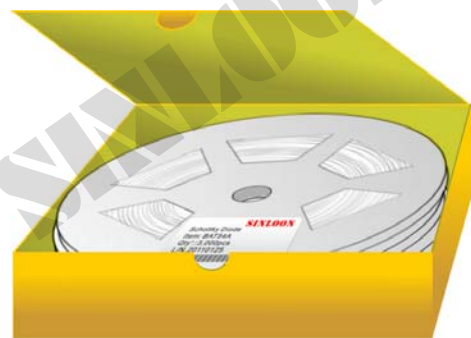
Fig-2



Carton Pack Fig-3



Inner Box: Fig-4



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