

CONSTANT VOLTAGE REGULATION APPLICATION.  
REFERENCE VOLTAGE APPLICATION.

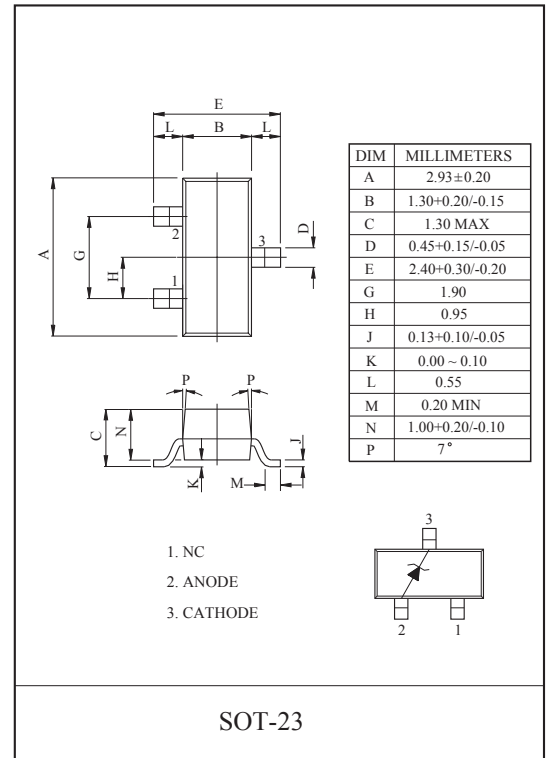
#### FEATURES

- Small Package : SOT-23.

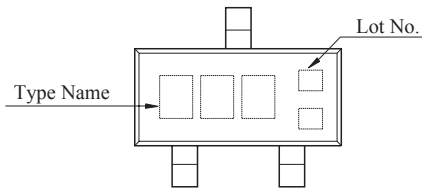
#### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	$P_D^*$	300	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C

\* Note  $P_D^*$  : Package Mounted on 99.5% alumina  $10 \times 8 \times 0.6$ mm.



#### Marking



#### MARK Spec

Type No.	MMBZ5221B	MMBZ5222B	MMBZ5223B	MMBZ5224B	MMBZ5225B	MMBZ5226B	MMBZ5227B	MMBZ5228B
Mark	18A	18B	18C	18D	18E	8A	8B	8C

Type No.	MMBZ5229B	MMBZ5230B	MMBZ5231B	MMBZ5232B	MMBZ5233B	MMBZ5234B	MMBZ5235B	MMBZ5236B
Mark	8D	8E	8F	8G	8H	8J	8K	8L

Type No.	MMBZ5237B	MMBZ5238B	MMBZ5239B	00BZ5240B	MMBZ5241B	MMBZ5242B	MMBZ5243B	MMBZ5244B
Mark	8M	8N	8P	8Q	8R	8S	8T	8U

Type No.	MMBZ5245B	MMBZ5246B	MMBZ5247B	MMBZ5248B	MMBZ5249B	MMBZ5250B	MMBZ5251B	MMBZ5252B
Mark	8V	8W	8X	8Y	8Z	81A	81B	81C

# MMBZ5221B~5252B

ELECTRICAL CHARACTERISTICS ( $V_F=0.9V$  MAX@ $I_F=10mA$  for all types)

TYPE No.	Zener Voltage (Note1)			Zener Impedance			Leakage Current		
	V <sub>Z</sub> (V)			@I <sub>ZT</sub>	Z <sub>ZT</sub> @I <sub>ZT</sub>	Z <sub>ZK</sub> @I <sub>ZK</sub>		I <sub>R</sub> @V <sub>R</sub>	
	Min	Normal	Max	mA	Ω	Ω	mA	μA	V
MMBZ5221B	2.28	2.4	2.52	20	30	1200	0.25	100	1
MMBZ5222B	2.37	2.5	2.63	20	30	1250	0.25	100	1
MMBZ5223B	2.56	2.7	2.84	20	30	1300	0.25	75	1
MMBZ5224B	2.66	2.8	2.94	20	30	1400	0.25	75	1
MMBZ5225B	2.85	3	3.15	20	29	1600	0.25	50	1
MMBZ5226B	3.13	3.3	3.47	20	28	1600	0.25	25	1
MMBZ5227B	3.42	3.6	3.78	20	24	1700	0.25	15	1
MMBZ5228B	3.70	3.9	4.10	20	23	1900	0.25	10	1
MMBZ5229B	4.08	4.3	4.52	20	22	2000	0.25	5	1
MMBZ5230B	4.46	4.7	4.94	20	19	1900	0.25	5	2
MMBZ5231B	4.84	5.1	5.36	20	17	1600	0.25	5	2
MMBZ5232B	5.32	5.6	5.88	20	11	1600	0.25	5	3
MMBZ5233B	5.70	6	6.30	20	7	1600	0.25	5	3.5
MMBZ5234B	5.89	6.2	6.51	20	7	1000	0.25	5	4
MMBZ5235B	6.46	6.8	7.14	20	5	750	0.25	3	5
MMBZ5236B	7.12	7.5	7.88	20	6	500	0.25	3	6
MMBZ5237B	7.79	8.2	8.61	20	8	500	0.25	3	6.5
MMBZ5238B	8.26	8.7	9.14	20	8	600	0.25	3	6.5
MMBZ5239B	8.64	9.1	9.56	20	10	600	0.25	3	7
MMBZ5240B	9.50	10	10.50	20	17	600	0.25	3	8
MMBZ5241B	10.40	11	11.55	20	22	600	0.25	2	8.4
MMBZ5242B	11.40	12	12.60	20	30	600	0.25	1	9.1
MMBZ5243B	12.35	13	13.65	9.5	13	600	0.25	0.5	9.9
MMBZ5244B	13.30	14	14.70	9	15	600	0.25	0.1	10
MMBZ5245B	14.25	15	15.75	8.5	16	600	0.25	0.1	11
MMBZ5246B	15.20	16	16.80	7.8	17	600	0.25	0.1	12
MMBZ5247B	16.15	17	17.85	7.4	19	600	0.25	0.1	13
MMBZ5248B	17.10	18	18.90	7	21	600	0.25	0.1	14
MMBZ5249B	18.05	19	19.95	6.6	23	600	0.25	0.1	14
MMBZ5250B	19.00	20	21.00	6.2	25	600	0.25	0.1	15
MMBZ5251B	20.90	22	23.10	5.6	29	600	0.25	0.1	17
MMBZ5252B	22.80	24	25.20	5.2	33	600	0.25	0.1	18

Note1) : Zener voltage is measured with a pulse test current (I<sub>ZT</sub>) applied at an ambient temperature of 25°C.

# MMBZ5221B~5252B

