



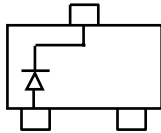
SOT-323 Plastic-Encapsulate Diode

MMBZ5221BW-MMBZ5259BW ZENER DIODE

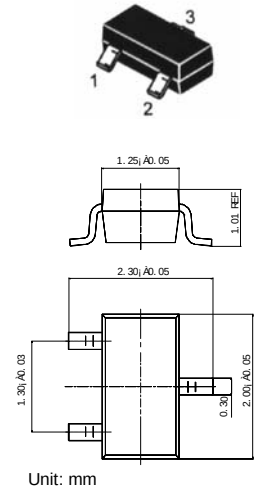
FEATURES

- Planar Die Construction
- 200mW Power Dissipation on FR-4 PCB
- General purpose, Medium Current
- Ideally Suited for Automated Assembly

Marking: see table on page2 The first code



SOT-323



ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Characteristic	Symbol	Value	Unit
Forward Voltage @ $I_F = 10\text{mA}$	V_F	0.9	V
Power Dissipation (Note 1)	P_d	350	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	357	K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150	°C

Notes: 1. Valid provided that device terminals are kept at ambient temperature.
2. Tested with pulses, $T_p \leq 1.0\text{ms}$.

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Type Number	Type Code	Zener Voltage Range (Note 2)				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	Ω		μA	V
MMBZ5221B	KC1	2.4	2.28	2.52	20	30	1200	100	1.0
MMBZ5223B	KC3	2.7	2.57	2.84	20	30	1300	75	1.0
MMBZ5225B	KC5	3.0	2.85	3.15	20	30	1600	50	1.0
MMBZ5226B	KG1/8A	3.3	3.14	3.47	20	28	1600	25	1.0
MMBZ5227B	KG2/8B	3.6	3.42	3.78	20	24	1700	15	1.0
MMBZ5228B	KG3/8C	3.9	3.71	4.10	20	23	1900	10	1.0
MMBZ5229B	KG4/8D	4.3	4.09	4.52	20	22	2000	5.0	1.0
MMBZ5230B	KG5/8E	4.7	4.47	4.94	20	19	1900	5.0	2.0
MMBZ5231B	KE1/8F	5.1	4.85	5.36	20	17	1600	5.0	2.0
MMBZ5232B	KE2/8G	5.6	5.32	5.88	20	11	1600	5.0	3.0
MMBZ5233B	KE3	6.0	5.70	6.30	20	7	1600	5.0	3.5
MMBZ5234B	KE4/8J	6.2	5.89	6.51	20	7	1000	5.0	4.0
MMBZ5235B	KE5/8K	6.8	6.46	7.14	20	5	750	3.0	5.0
MMBZ5236B	KF1/8L	7.5	7.13	7.88	20	6	500	3.0	6.0
MMBZ5237B	KF2/8M	8.2	7.79	8.61	20	8	500	3.0	6.5
MMBZ5238B	KF3	8.7	8.27	9.14	20	8	600	3.0	6.5
MMBZ5239B	KF4/8P	9.1	8.65	9.56	20	10	600	3.0	7.0
MMBZ5240B	KF5/8Q	10	9.50	10.50	20	17	600	3.0	8.0
MMBZ5241B	KH1/8R	11	10.45	11.55	20	22	600	2.0	8.4
MMBZ5242B	KH2/8S	12	11.40	12.60	20	30	600	1.0	9.1
MMBZ5243B	KH3/8T	13	12.35	13.65	9.5	13	600	0.5	9.9
MMBZ5245B	KH5/8V	15	14.25	15.75	8.5	16	600	0.1	11
MMBZ5246B	KJ1/8W	16	15.20	16.80	7.8	17	600	0.1	12
MMBZ5248B	KJ3/8Y	18	17.10	18.90	7.0	21	600	0.1	14
MMBZ5250B	KJ5/81A	20	19.00	21.00	6.2	25	600	0.1	15
MMBZ5251B	KK1/81B	22	20.90	23.10	5.6	29	600	0.1	17
MMBZ5252B	KK2/81C	24	22.80	25.20	5.2	33	600	0.1	18
MMBZ5254B	KK4/81E	27	25.65	28.35	5.0	41	600	0.1	21
MMBZ5255B	KK5	28	26.60	29.40	4.5	44	600	0.1	21
MMBZ5256B	KM1/81G	30	28.50	31.50	4.2	49	600	0.1	23
MMBZ5257B	KM2/81H	33	31.35	34.65	3.8	58	700	0.1	25
MMBZ5258B	KM3	36	34.20	37.80	3.4	70	700	0.1	27
MMBZ5259B	KM4	39	37.05	40.95	3.2	80	800	0.1	30

Notes: 1. Valid provided that device terminals are kept at ambient temperature.
2. Tested with pulses, T_p ≤ 1.0ms.