

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

MMBZ5221BW THRU MMBZ5259BW

Features

- Wide Voltage Range Available
- Small Outline Package For Space Savings
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

Maximum Ratings @ 25°C Unless Otherwise Specified

Zener Current	I _F	10	mA
Maximum Forward Voltage	V _F	0.9	V
Power Dissipation (Notes A)	P _d	200	mWatt
Thermal Resistance Juntion to Ambient Air	R _{thJA}	357	K/W
(Notes A)			

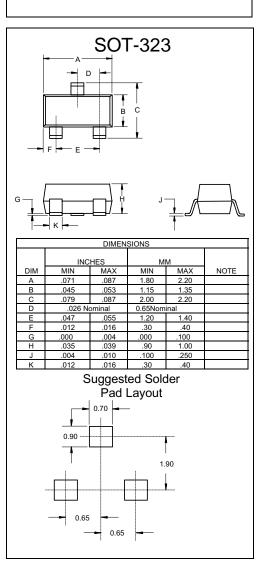
NOTES:

A. Mounted on FR4 PC board with our suggested solder pad layout .





200 mW Zener Diode 2.4 to 39 Volts



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Revision: A

2011/01/01

MMBZ5221BW thru MMBZ5259BW



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ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER	MARKING	NOMINAL ZENER VOLTAGE Vz @ Izt	TEST CURRENT		I ZENER IMPEDANCE SUFFIX ONLY Ζ _{7κ} @Ι _{7κ} = 0.25mA		REVERSE LEAKAGE CURRENT 3 @. V _R
NUMBER		VOLTS	mA	OHMS	OHMS	μA	R @ VR VOLTS
MMBZ5221BW	KC1/C1	2.4	20	30	1200	100	1.0
MMBZ5222BW	KC2/C2	2.5	20	30	1250	100	1.0
MMBZ5223BW	KC3/C3	2.7	20	30	1300	75	1.0
MMBZ5225BW	KC5/C5	3.0	20	29	1600	50	1.0
MMBZ5226BW	KG1/D1	3.3	20	28	1600	25	1.0
MMBZ5227BW	KG2/D2	3.6	20	24	1700	15	1.0
MMBZ5228BW	KG3/D3	3.9	20	23	1900	10	1.0
MMBZ5229BW	KG4/D4	4.3	20	22	2000	5.0	1.0
MMBZ5230BW	KG5/D5	4.7	20	19	1900	5.0	2.0
MMBZ5231BW	KE1/E1	5.1	20	17	1600	5.0	2.0
MMBZ5232BW	KE2/E2	5.6	20	11	1600	5.0	3.0
MMBZ5234BW	KE4/E4	6.2	20	7.0	1000	5.0	4.0
MMBZ5235BW	KE5/E5	6.8	20	5.0	750	3.0	5.0
MMBZ5236BW	KF1/F1	7.5	20	6.0	500	3.0	6.0
MMBZ5237BW	KF2/F2	8.2	20	8.0	500	3.0	6.5
MMBZ5239BW	KF4/F4	9.1	20	10	600	3.0	7.0
MMBZ5240BW	KF5/F5	10	20	17	600	3.0	8.0
MMBZ5241BW	KH1/H1	11	20	22	600	2.0	8.4
MMBZ5242BW	KH2/H2	12	20	30	600	1.0	9.1
MMBZ5243BW	KH3/H3	13	9.5	13	600	0.5	9.9
MMBZ5245BW	KH5/H5	15	8.5	16	600	0.1	11
MMBZ5246BW	KJ1/J1	16	7.8	17	600	0.1	12
MMBZ5248BW	KJ3/J3	18	7.0	21	600	0.1	14
MMBZ5250BW	KJ5/J5	20	6.2	25	600	0.1	15
MMBZ5251BW	KK1/K1	22	5.6	29	600	0.1	17
MMBZ5252BW	KK2/K2	24	5.2	33	600	0.1	18
MMBZ5254BW	KK4/K4	27	5.0	41	600	0.1	21
MMBZ5255BW	KK5/K5	28	4.5	44	600	0.1	21
MMBZ5256BW	KM1/M1	30	4.2	49	600	0.1	23
MMBZ5257BW	KM2/M2	33	3.8	58	700	0.1	25
MMBZ5258BW	KM3/M3	36	3.4	70	700	0.1	27
MMBZ5259BW	KM4/M4	39	3.2	80	800	0.1	30

Note: 1. Tolerance and Type Number Designation. The type numbers listed have a standard tolerance on the nominal zener voltage of ±5%.

2. Specials Available Include:

A. Nominal zener voltages between the voltages shown and tighter voltage tolerances.

B. Matched sets.

3. Zener Voltage (Vz) Measurement. Guarantees the zener voltage when measured at 90 seconds while maintaining the lead temperature (TL) at 30°C, from the diode body.

4. Zener Impedance (Zz) Derivation. The zener impedance is derived from the 60 cycle ac voltage, which results when an AC current having an rms value equal to 10% of the dc zener current (IzT or IzK) is superimposed on IzT or IzK.

5. Surge Current (Irk) Non-Repetitive. The rating listed in the electrical characteristics table is maximum peak, non-repetitive, reverse surge current of 1/2 square wave or equivalent sine wave pulse of 1/120 second duration superimposed on the test current, Izr, per JEDEC registration

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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