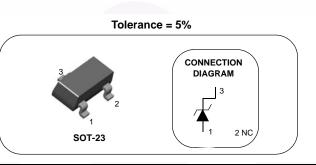


MMBZ5221B-MMBZ5257B Zener Diodes



Absolute Maximum Ratings * T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
PD	Power Dissipation	350	mW
T _{STG}	Storage Temperature Range	-55 to +150	°C
TJ	Operating Junction Temperature	+150	°C

* These ratings are limiting values above which the serviceability of the diode may be impaired.

NOTES:

1)These ratings are based on a maximum junction temperature of 150 degrees C.

 These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Device Mark			V _Z (V)		Z _Z (Ω) @ I _Z (mA)		Z _{ZK} (Ω) @ I _{ZK} (mA)			
Device	IVIA IN	Min.	Nor.	Max.			∠ZK(22) @		I _R (μΑ) @ V _R (V)	
MMBZ5221B	18A	2.28	2.4	2.52	30	20	1,200	0.25	100	1.0
MMBZ5223B	18C	2.565	2.7	2.835	30	20	1,300	0.25	75	1.0
MMBZ5226B	8A	3.135	3.3	3.465	28	20	1,600	0.25	25	1.0
MMBZ5227B	8B	3.42	3.6	3.78	24	20	1,700	0.25	15	1.0
MMBZ5228B	8C	3.705	3.9	4.095	23	20	1,900	0.25	10	1.0
MMBZ5229B	8D	4.085	4.3	4.515	22	20	1,000	0.25	5.0	1.0
MMBZ5230B	8E	4.465	4.7	4.935	19	20	1,900	0.25	5.0	2.0
MMBZ5231B	8F	4.845	5.1	5.355	17	20	1,600	0.25	5.0	2.0
MMBZ5232B	8G	5.32	5.6	5.88	11	20	1,600	0.25	5.0	3.0
MMBZ5233B	8H	5.7	6.0	6.3	7.0	20	1,600	0.25	5.0	3.5
MMBZ5234B	8J	5.89	6.2	6.51	7.0	20	1,000	0.25	5.0	4.0
MMBZ5235B	8K	6.46	6.8	7.14	5.0	20	750	0.25	3.0	5.0
MMBZ5236B	8L	7.125	7.5	7.875	6.0	20	500	0.25	3.0	6.0
MMBZ5237B	8M	7.79	8.2	8.61	8.0	20	500	0.25	3.0	6.5
MMBZ5238B	8N	8.265	8.7	9.135	8.0	20	600	0.25	3.0	6.5
MMBZ5239B	8P	8.645	9.1	9.555	10	20	600	0.25	3.0	7.0
MMBZ5240B	8Q	9.5	10	10.5	17	20	600	0.25	3.0	8.0
MMBZ5241B	8R	10.45	11	11.55	22	20	600	0.25	2.0	8.4
MMBZ5242B	8S	11.4	12	12.6	30	20	600	0.25	1.0	9.1
V _F Forward Vol	tage = 0.9	9V Maxim	um @ I _F =	= 10mA fo	r all MMB	Z5200 se	ries			

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MMBZ5221B-MMBZ5257B — Zener Diodes

I_R (μΑ) @ V_R (V)

9.9

10

11

12

13

14

14

15

17

18

19

21

21

23

25

0.5

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

Z_{ZK}(Ω) @ I_{ZK}(mA)

0.25

0.25

0.25

0.25

0.25

0.25

0.25

0.25

0.25

0.25

0.25

0.25

0.25

0.25

0.25

600

600

600

600

600

600

600

600

600

600

600

600

600

600

600

Z_Z(Ω) @ I_Z (mA)

9.5

9.0

8.5

7.8

7.4

7.0

6.6

6.2

5.6

5.2

5.0

4.6

4.5

4.2

3.8

13

15

16

17

19

21

23

25

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35

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MMBZ5221B-MMBZ5257B Rev. B0

Electrical Characteristics (Continued) $T_A = 25^{\circ}C$ unless otherwise noted

Nor.

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V_F Forward Voltage = 0.9V Maximum @ I_F = 10mA for all MMBZ5200 series

Max.

13.65

14.7

15.75

16.8

17.85

18.9

19.95

21

23.1

25.2

26.25

28.35

29.4

31.5

34.65

Device

MMBZ5243B

MMBZ5244B

MMBZ5245B

MMBZ5246B

MMBZ5247B

MMBZ5248B

MMBZ5249B

MMBZ5250B

MMBZ5251B

MMBZ5252B

MMBZ5253B

MMBZ5254B

MMBZ5255B

MMBZ5256B

MMBZ5257B

Mark

8T

8U

8V

8W

8X

8Y

8Z

81A

81B

81C

81D

81E

81F

81G

81H

Min.

12.35

13.3

14.25

15.2

16.15

17.1

18.05

19

20.9

22.8

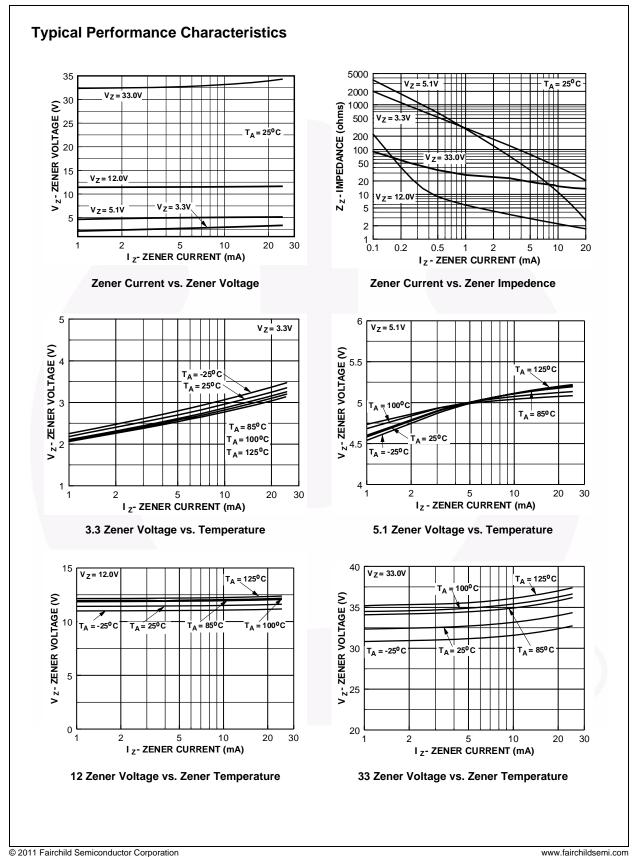
23.75

25.65

26.6

28.5

31.35



MMBZ5221B-MMBZ5257B — Zener Diodes

MMBZ5221B-MMBZ5257B Rev. B0

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