

# Zeners

## MMBZ5226B - MMBZ5257B

Zeners (MMBZ5226B - MMBZ5257B)

Tolerance: B = 5%

### Absolute Maximum Ratings\*

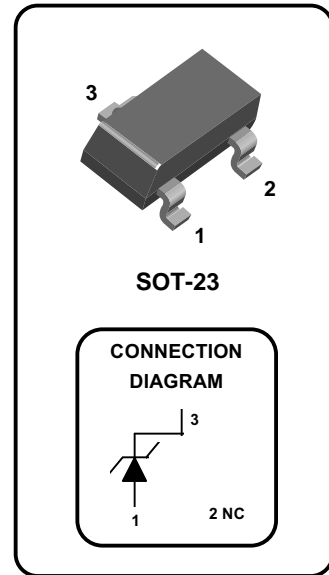
$T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	350	mW
$T_{STG}$	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	+ 150	$^\circ\text{C}$

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



### Electrical Characteristics

$T_A = 25^\circ\text{C}$  unless otherwise noted

Device	Mark	$V_Z$ (V)	$Z_Z(\Omega)$ @ $I_Z(\text{mA})$	$Z_{ZK}(\Omega)$ @ $I_{ZK}(\text{mA})$	$I_R(\mu\text{A})$ @ $V_R(\text{V})$
<b>MMBZ 5226B</b>	8A	3.3	28 20	1,600 0.25	25 1.0
MMBZ 5227B	8B	3.6	24 20	1,700 0.25	15 1.0
MMBZ 5228B	8C	3.9	23 20	1,900 0.25	10 1.0
<b>MMBZ 5229B</b>	8D	4.3	22 20	1,000 0.25	5.0 1.0
<b>MMBZ 5230B</b>	8E	4.7	19 20	1,900 0.25	5.0 2.0
<b>MMBZ 5231B</b>	8F	5.1	17 20	1,600 0.25	5.0 2.0
<b>MMBZ 5232B</b>	8G	5.6	11 20	1,600 0.25	5.0 3.0
MMBZ 5233B	8H	6.0	7.0 20	1,600 0.25	5.0 3.5
<b>MMBZ 5234B</b>	8J	6.2	7.0 20	1,000 0.25	5.0 4.0
<b>MMBZ 5235B</b>	8K	6.8	5.0 20	750 0.25	3.0 5.0
<b>MMBZ 5236B</b>	8L	7.5	6.0 20	500 0.25	3.0 6.0
<b>MMBZ 5237B</b>	8M	8.2	8.0 20	500 0.25	3.0 6.5
MMBZ 5238B	8N	8.7	8.0 20	600 0.25	3.0 6.5
<b>MMBZ 5239B</b>	8P	9.1	10 20	600 0.25	3.0 7.0
<b>MMBZ 5240B</b>	8Q	10	17 20	600 0.25	3.0 8.0
MMBZ 5241B	8R	11	22 20	600 0.25	2.0 8.4
<b>MMBZ 5242B</b>	8S	12	30 20	600 0.25	1.0 9.1

$V_F$  Forward Voltage = 0.9 V Maximum @  $I_F = 10 \text{ mA}$  for all MMBZ 5200 series

NOTE: National preferred devices in **BOLD**

## Zeners (MMBZ5226B - MMBZ5257B)

(continued)

### Electrical Characteristics (continued) TA = 25°C unless otherwise noted

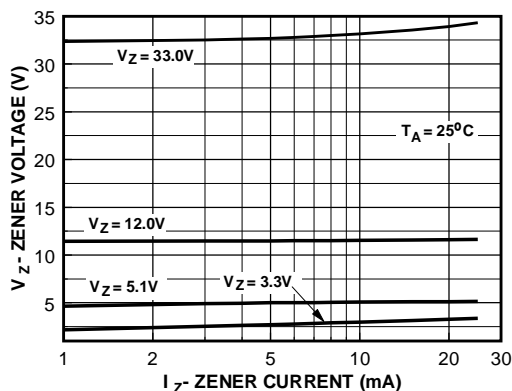
Device	Mark	V <sub>Z</sub> (V)	Z <sub>Z</sub> (Ω) @ I <sub>Z</sub> (mA)	Z <sub>ZK</sub> (Ω) @ I <sub>ZK</sub> (mA)	I <sub>R</sub> (nA) @ V <sub>R</sub> (V)
MMBZ 5243B	8T	13	13 9.5	600 0.25	500 9.9
MMBZ 5244B	8U	14	15 9.0	600 0.25	100 10
<b>MMBZ 5245B</b>	8V	15	16 8.5	600 0.25	100 11
MMBZ 5246B	8W	16	17 7.8	600 0.25	100 12
MMBZ 5247B	8X	17	19 7.4	600 0.25	100 13
MMBZ 5248B	8Y	18	21 7.0	600 0.25	100 14
MMBZ 5249B	8Z	19	23 6.6	600 0.25	100 14
MMBZ 5250B	81A	20	25 6.2	600 0.25	100 15
MMBZ 5251B	81B	22	29 5.6	600 0.25	100 17
MMBZ 5252B	81C	24	33 5.2	600 0.25	100 18
MMBZ 5253B	81D	25	35 5.0	600 0.25	100 19
<b>MMBZ 5254B</b>	81E	27	41 4.6	600 0.25	100 21
<b>MMBZ 5255B</b>	81F	28	44 4.5	600 0.25	100 21
MMBZ 5256B	81G	30	49 4.2	600 0.25	100 23
MMBZ 5257B	81H	33	58 3.8	700 0.25	100 25

V<sub>F</sub> Forward Voltage = 0.9 V Maximum @ I<sub>F</sub> = 10 mA for all MMBZ 5200 series

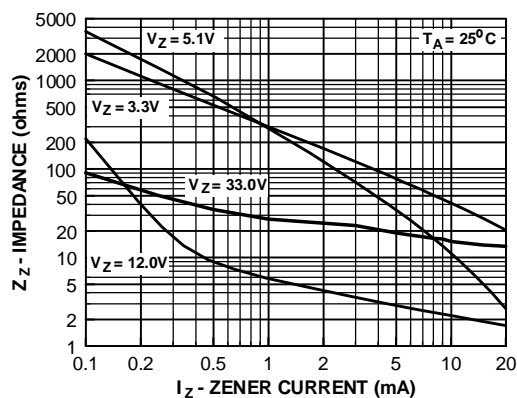
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Zeners (MMBZ5226B - MMBZ5257B)

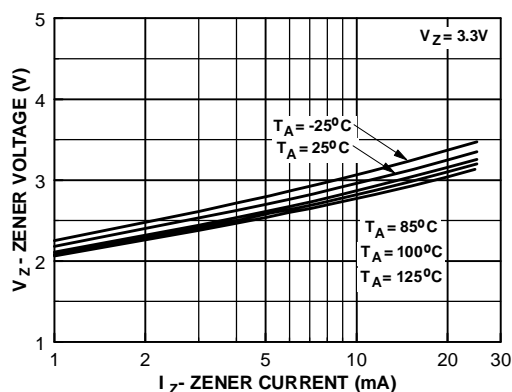
## Typical Characteristics



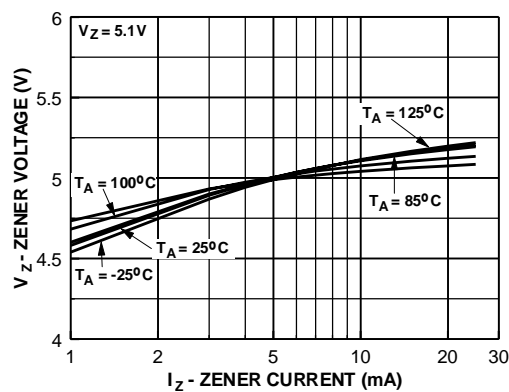
Zener Current vs. Zener Voltage



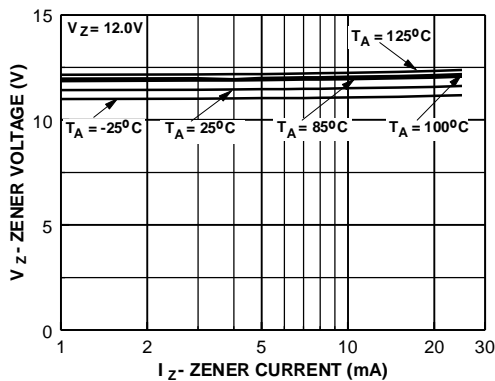
Zener Current vs. Zener Impedance



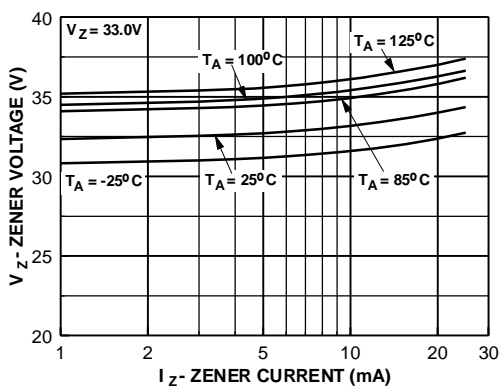
3.3 Zener Voltage vs. Temperature



5.1 Zener Voltage vs. Temperature



12 Zener Voltage vs. Zener Temperature



33 Zener Voltage vs. Zener Temperature

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