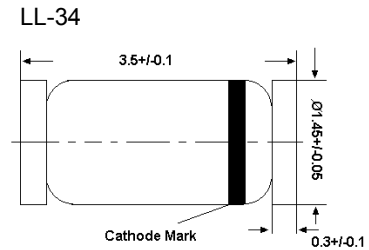




ZMM5221...ZMM5267

Silicon Epitaxial Planar Zener Diodes

Standard zener voltage tolerance is $\pm 20\%$. Add suffix "A" for $\pm 10\%$ tolerance, suffix "B" for $\pm 5\%$ tolerance and suffix "C" for $\pm 2\%$ tolerance. Other tolerance, non standard and higher zener voltages are upon request.



Glass case MiniMELF
Dimensions in mm

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|---------------------------|------------------|-------------------|------------------|
| Power Dissipation | P_{tot} | 500 ¹⁾ | mW |
| Junction Temperature | T_j | 175 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | - 65 to + 175 | $^\circ\text{C}$ |

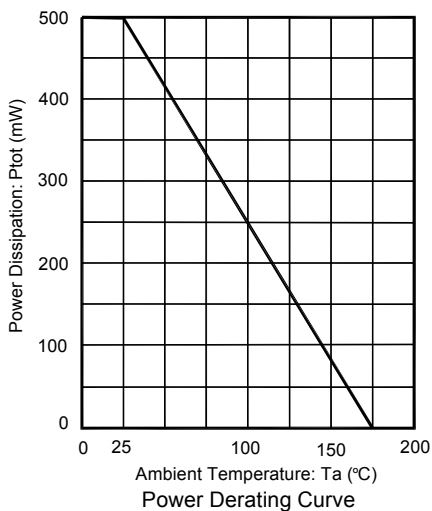
¹⁾ Valid provided that electrodes are kept at ambient temperature.

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

| Parameter | Symbol | Max. | Unit |
|---|------------------|-------------------|------|
| Thermal Resistance Junction to Ambient Air | R_{thA} | 0.3 ¹⁾ | K/mW |
| Forward Voltage at $I_F = 200\text{ mA}$ | V_F | 1.1 | V |

¹⁾ Valid provided that electrodes are kept at ambient temperature.

**Admissible power dissipation
versus ambient temperature**
Valid provided that electrodes are kept
at ambient temperature.





ZMM5221...ZMM5267

Silicon Epitaxial Planar Zener Diodes

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

| Type | Zener Voltage Range ¹⁾ | | | | Dynamic Resistance | | | Reverse Current | |
|----------|-----------------------------------|----------|----------|-------------|--------------------|-------------------|-------------|------------------------|----------|
| | V_{Znom} | V_{ZT} | | at I_{ZT} | Z_{ZT} | Z_{ZK} | at I_{ZK} | I_R | at V_R |
| | (V) | Min. (V) | Max. (V) | (mA) | Max. (Ω) | Max. (Ω) | (mA) | Max. (μA) | (V) |
| ZMM5221B | 2.4 | 2.28 | 2.52 | 20 | 30 | 1200 | 0.25 | 100 | 1 |
| ZMM5222B | 2.5 | 2.38 | 2.62 | 20 | 30 | 1250 | 0.25 | 100 | 1 |
| ZMM5223B | 2.7 | 2.57 | 2.83 | 20 | 30 | 1300 | 0.25 | 75 | 1 |
| ZMM5224B | 2.8 | 2.66 | 2.94 | 20 | 30 | 1400 | 0.25 | 75 | 1 |
| ZMM5225B | 3 | 2.85 | 3.15 | 20 | 29 | 1600 | 0.25 | 50 | 1 |
| ZMM5226B | 3.3 | 3.14 | 3.46 | 20 | 28 | 1600 | 0.25 | 25 | 1 |
| ZMM5227B | 3.6 | 3.42 | 3.78 | 20 | 24 | 1700 | 0.25 | 15 | 1 |
| ZMM5228B | 3.9 | 3.71 | 4.09 | 20 | 23 | 1900 | 0.25 | 10 | 1 |
| ZMM5229B | 4.3 | 4.09 | 4.51 | 20 | 22 | 2000 | 0.25 | 5 | 1 |
| ZMM5230B | 4.7 | 4.47 | 4.93 | 20 | 19 | 1900 | 0.25 | 5 | 2 |
| ZMM5231B | 5.1 | 4.85 | 5.35 | 20 | 17 | 1600 | 0.25 | 5 | 2 |
| ZMM5232B | 5.6 | 5.32 | 5.88 | 20 | 11 | 1600 | 0.25 | 5 | 3 |
| ZMM5233B | 6 | 5.7 | 6.3 | 20 | 7 | 1600 | 0.25 | 5 | 3.5 |
| ZMM5234B | 6.2 | 5.89 | 6.51 | 20 | 7 | 1000 | 0.25 | 5 | 4 |
| ZMM5235B | 6.8 | 6.46 | 7.14 | 20 | 5 | 750 | 0.25 | 3 | 5 |
| ZMM5236B | 7.5 | 7.13 | 7.87 | 20 | 6 | 500 | 0.25 | 3 | 6 |
| ZMM5237B | 8.2 | 7.79 | 8.61 | 20 | 8 | 500 | 0.25 | 3 | 6.5 |
| ZMM5238B | 8.7 | 8.27 | 9.13 | 20 | 8 | 600 | 0.25 | 3 | 6.5 |
| ZMM5239B | 9.1 | 8.65 | 9.55 | 20 | 10 | 600 | 0.25 | 3 | 7 |
| ZMM5240B | 10 | 9.5 | 10.5 | 20 | 17 | 600 | 0.25 | 3 | 8 |
| ZMM5241B | 11 | 10.45 | 11.55 | 20 | 22 | 600 | 0.25 | 2 | 8.4 |
| ZMM5242B | 12 | 11.4 | 12.6 | 20 | 30 | 600 | 0.25 | 1 | 9.1 |
| ZMM5243B | 13 | 12.35 | 13.65 | 9.5 | 13 | 600 | 0.25 | 0.5 | 9.9 |
| ZMM5244B | 14 | 13.3 | 14.7 | 9 | 15 | 600 | 0.25 | 0.1 | 10 |
| ZMM5245B | 15 | 14.25 | 15.75 | 8.5 | 16 | 600 | 0.25 | 0.1 | 11 |
| ZMM5246B | 16 | 15.2 | 16.8 | 7.8 | 17 | 600 | 0.25 | 0.1 | 12 |
| ZMM5247B | 17 | 16.15 | 17.85 | 7.4 | 19 | 600 | 0.25 | 0.1 | 13 |
| ZMM5248B | 18 | 17.1 | 18.9 | 7.0 | 21 | 600 | 0.25 | 0.1 | 14 |
| ZMM5249B | 19 | 18.05 | 19.95 | 6.6 | 23 | 600 | 0.25 | 0.1 | 14 |
| ZMM5250B | 20 | 19 | 21 | 6.2 | 25 | 600 | 0.25 | 0.1 | 15 |
| ZMM5251B | 22 | 20.9 | 23.1 | 5.6 | 29 | 600 | 0.25 | 0.1 | 17 |
| ZMM5252B | 24 | 22.8 | 25.2 | 5.2 | 33 | 600 | 0.25 | 0.1 | 18 |
| ZMM5253B | 25 | 23.75 | 26.25 | 5 | 35 | 600 | 0.25 | 0.1 | 19 |
| ZMM5254B | 27 | 25.65 | 28.35 | 4.6 | 41 | 600 | 0.25 | 0.1 | 21 |
| ZMM5255B | 28 | 26.6 | 29.4 | 4.4 | 44 | 600 | 0.25 | 0.1 | 21 |
| ZMM5256B | 30 | 28.5 | 31.5 | 4.2 | 49 | 600 | 0.25 | 0.1 | 23 |
| ZMM5257B | 33 | 31.35 | 34.65 | 3.8 | 58 | 700 | 0.25 | 0.1 | 25 |
| ZMM5258B | 36 | 34.2 | 37.8 | 3.4 | 70 | 700 | 0.25 | 0.1 | 27 |
| ZMM5259B | 39 | 37.05 | 40.95 | 3.2 | 80 | 800 | 0.25 | 0.1 | 30 |
| ZMM5260B | 43 | 40.85 | 45.15 | 3 | 93 | 900 | 0.25 | 0.1 | 33 |
| ZMM5261B | 47 | 44.65 | 49.35 | 2.7 | 105 | 1000 | 0.25 | 0.1 | 36 |
| ZMM5262B | 51 | 48.45 | 53.55 | 2.5 | 125 | 1100 | 0.25 | 0.1 | 39 |
| ZMM5263B | 56 | 53.2 | 58.8 | 2.2 | 150 | 1300 | 0.25 | 0.1 | 45 |
| ZMM5264B | 60 | 57 | 63 | 2.1 | 170 | 1400 | 0.25 | 0.1 | 46 |
| ZMM5265B | 62 | 58.9 | 65.1 | 2 | 185 | 1400 | 0.25 | 0.1 | 47 |
| ZMM5266B | 68 | 64.6 | 71.4 | 1.8 | 230 | 1600 | 0.25 | 0.1 | 52 |
| ZMM5267B | 75 | 71.25 | 78.75 | 1.7 | 270 | 1700 | 0.25 | 0.1 | 56 |

¹⁾ Tested with pulses $t_p = 20\text{ ms}$.



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