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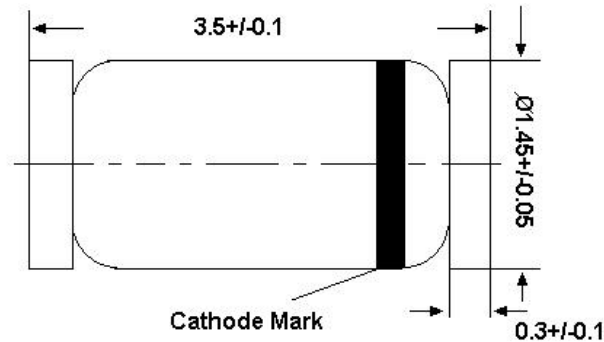
PLED

ZMM1B-ZMM75B

Product specification

MiniMELF case especially for automatic insertion.

These diodes are also available in DO-35 case with the type designation BZX55B...



Glass case MiniMELF
Dimensions in mm
LL-34

REEL SPECIFICATION

| P/N | PKG | QTY |
|--------------|-------|------|
| ZMM1B-ZMM75B | LL-34 | 2500 |

Absolute Maximum Ratings (Ta = 25°C)

| Parameter | Symbol | Value | Unit |
|---------------------------|-----------|-------------------|------|
| Power Dissipation | P_{tot} | 500 ¹⁾ | mW |
| Junction Temperature | T_j | 175 | °C |
| Storage Temperature Range | T_{stg} | - 55 to + 175 | °C |

¹⁾ Valid provided that electrodes are kept at ambient temperature

Characteristics at Ta = 25°C

| Parameter | Symbol | Max. | Unit |
|--|-----------------|-------------------|------|
| Thermal Resistance Junction to Ambient Air | $R_{\theta JA}$ | 0.3 ¹⁾ | K/mW |
| Forward Voltage at $I_F = 100$ mA | V_F | 1 | V |

¹⁾ Valid provided that electrodes are kept at ambient temperature

Characteristics at Ta = 25°C

| P/N | Zener Voltage Range ¹⁾ | | | Dynamic Resistance | | | Reverse Leakage Current | | | Temp coefficient of Zener Voltage |
|---------------------|-----------------------------------|-----------------|--------------------|--------------------|-----------------|--------------------|-------------------------|-------------------------|-------------------|-----------------------------------|
| | V _{Znom} | V _{ZT} | at I _{ZT} | Z _{ZT} | Z _{ZK} | at I _{ZK} | T _a = 25 °C | T _a = 125 °C | at V _R | |
| | (V) | (V) | (mA) | Max. (Ω) | Max. (Ω) | (mA) | Max. (μA) | Max. (μA) | (V) | TKvz (%/K) |
| ZMM1B ²⁾ | 0.75 | 0.73...0.77 | 5 | 8 | 50 | 1 | - | - | - | -0.26...-0.23 |
| ZMM2B0 | 2 | 1.96...2.04 | 5 | 85 | 600 | 1 | 100 | 200 | 1 | -0.09...-0.06 |
| ZMM2B2 | 2.2 | 2.16...2.24 | 5 | 85 | 600 | 1 | 75 | 160 | 1 | -0.09...-0.06 |
| ZMM2B4 | 2.4 | 2.35...2.45 | 5 | 85 | 600 | 1 | 50 | 100 | 1 | -0.09...-0.06 |
| ZMM2B7 | 2.7 | 2.65...2.75 | 5 | 85 | 600 | 1 | 10 | 50 | 1 | -0.09...-0.06 |
| ZMM3B0 | 3 | 2.94...3.06 | 5 | 85 | 600 | 1 | 4 | 40 | 1 | -0.08...-0.05 |
| ZMM3B3 | 3.3 | 3.23...3.37 | 5 | 85 | 600 | 1 | 2 | 40 | 1 | -0.08...-0.05 |
| ZMM3B6 | 3.6 | 3.53...3.67 | 5 | 85 | 600 | 1 | 2 | 40 | 1 | -0.08...-0.05 |
| ZMM3B9 | 3.9 | 3.82...3.98 | 5 | 85 | 600 | 1 | 2 | 40 | 1 | -0.08...-0.05 |
| ZMM4B3 | 4.3 | 4.21...4.39 | 5 | 75 | 600 | 1 | 1 | 20 | 1 | -0.06...-0.03 |
| ZMM4B7 | 4.7 | 4.61...4.79 | 5 | 60 | 600 | 1 | 0.5 | 10 | 1 | -0.05...+0.02 |
| ZMM5B1 | 5.1 | 5...5.2 | 5 | 35 | 550 | 1 | 0.1 | 2 | 1 | -0.02...+0.02 |
| ZMM5B6 | 5.6 | 5.49...5.71 | 5 | 25 | 450 | 1 | 0.1 | 2 | 1 | -0.05...+0.05 |
| ZMM6B2 | 6.2 | 6.08...6.32 | 5 | 10 | 200 | 1 | 0.1 | 2 | 2 | 0.03...0.06 |
| ZMM6B8 | 6.8 | 6.66...6.94 | 5 | 8 | 150 | 1 | 0.1 | 2 | 3 | 0.03...0.07 |
| ZMM7B5 | 7.5 | 7.35...7.65 | 5 | 7 | 50 | 1 | 0.1 | 2 | 5 | 0.03...0.07 |
| ZMM8B2 | 8.2 | 8.04...8.36 | 5 | 7 | 50 | 1 | 0.1 | 2 | 6.2 | 0.03...0.08 |
| ZMM9B1 | 9.1 | 8.92...9.28 | 5 | 10 | 50 | 1 | 0.1 | 2 | 6.8 | 0.03...0.09 |
| ZMM10B | 10 | 9.8...10.2 | 5 | 15 | 70 | 1 | 0.1 | 2 | 7.5 | 0.03...0.1 |
| ZMM11B | 11 | 10.78...11.22 | 5 | 20 | 70 | 1 | 0.1 | 2 | 8.2 | 0.03...0.11 |
| ZMM12B | 12 | 11.76...12.24 | 5 | 20 | 90 | 1 | 0.1 | 2 | 9.1 | 0.03...0.11 |
| ZMM13B | 13 | 12.74...13.26 | 5 | 26 | 110 | 1 | 0.1 | 2 | 10 | 0.03...0.11 |
| ZMM15B | 15 | 14.7...15.3 | 5 | 30 | 110 | 1 | 0.1 | 2 | 11 | 0.03...0.11 |
| ZMM16B | 16 | 15.68...16.32 | 5 | 40 | 170 | 1 | 0.1 | 2 | 12 | 0.03...0.11 |
| ZMM18B | 18 | 17.64...18.36 | 5 | 50 | 170 | 1 | 0.1 | 2 | 13 | 0.03...0.11 |
| ZMM20B | 20 | 19.6...20.4 | 5 | 55 | 220 | 1 | 0.1 | 2 | 15 | 0.03...0.11 |
| ZMM22B | 22 | 21.56...22.44 | 5 | 55 | 220 | 1 | 0.1 | 2 | 16 | 0.04...0.12 |
| ZMM24B | 24 | 23.52...24.48 | 5 | 80 | 220 | 1 | 0.1 | 2 | 18 | 0.04...0.12 |
| ZMM27B | 27 | 26.46...27.54 | 5 | 80 | 220 | 1 | 0.1 | 2 | 20 | 0.04...0.12 |
| ZMM30B | 30 | 29.4...30.6 | 5 | 80 | 220 | 1 | 0.1 | 2 | 22 | 0.04...0.12 |
| ZMM33B | 33 | 32.34...33.66 | 5 | 80 | 220 | 1 | 0.1 | 2 | 24 | 0.04...0.12 |
| ZMM36B | 36 | 35.28...36.72 | 5 | 80 | 220 | 1 | 0.1 | 2 | 27 | 0.04...0.12 |
| ZMM39B | 39 | 38.22...39.78 | 2.5 | 90 | 500 | 0.5 | 0.1 | 5 | 30 | 0.04...0.12 |
| ZMM43B | 43 | 42.14...43.86 | 2.5 | 90 | 500 | 0.5 | 0.1 | 5 | 33 | 0.04...0.12 |
| ZMM47B | 47 | 46.06...47.94 | 2.5 | 110 | 600 | 0.5 | 0.1 | 5 | 36 | 0.04...0.12 |
| ZMM51B | 51 | 49.98...52.02 | 2.5 | 125 | 700 | 0.5 | 0.1 | 10 | 39 | 0.04...0.12 |
| ZMM56B | 56 | 54.88...57.12 | 2.5 | 135 | 700 | 0.5 | 0.1 | 10 | 43 | 0.04...0.12 |
| ZMM62B | 62 | 60.76...63.24 | 2.5 | 150 | 1000 | 0.5 | 0.1 | 10 | 47 | 0.04...0.12 |
| ZMM68B | 68 | 66.64...69.36 | 2.5 | 200 | 1000 | 0.5 | 0.1 | 10 | 51 | 0.04...0.12 |
| ZMM75B | 75 | 73.5...76.5 | 2.5 | 250 | 1000 | 0.5 | 0.1 | 10 | 56 | 0.04...0.12 |

¹⁾ Tested with pulset_p = 20 ms.

²⁾ The ZMM1B is a silicon diode with operation in forward direction. Hence, the index of all parameters should be "F" instead of "Z". Connect the cathode electrode to the negative pole.

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