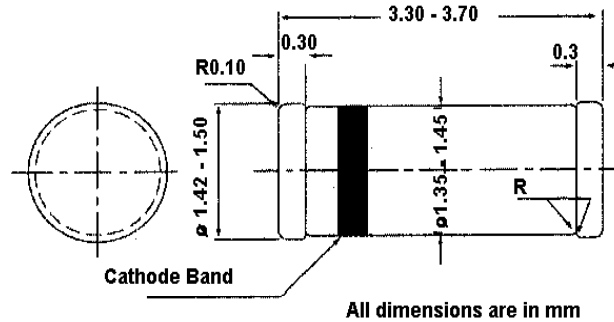




500mW 5% mini-M.E.L.F. ZENER DIODE



Mini MELF (LL-34), SOD - 80C
Hermetically Sealed, Glass Silicon Diodes

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

| ITEMS | SYMBOL | VALUE | UNIT |
|----------------------------|------------|-------------|------|
| Power Dissipation | P_{TOT} | 500 | mW |
| Thermal Resistance | R_{thJA} | 0.3 | K/mW |
| Forward Voltage @If= 10 mA | Vf | 1.1 | V |
| Vz Tolerance | | 5 | % |
| Junction Temperature | T_j | -65 to +200 | °C |
| Storage Temperature | T_{stg} | -65 to +200 | °C |

Mechanical Data

| Items | Material |
|-------------|---------------------------|
| Package | mini-MELF (RoHS - HF) |
| Case | Hermetically sealed glass |
| Lead Finish | Sn plating |

ELECTRICAL CHARACTERISTICS (Ta = 25°C unless specified otherwise)

| TYPE | ZENER VOLTAGE | | MAX ZENER IMPEDANCE | MAX ZENER IMPEDANCE | MAXIMUM REVERSE CURRENT | | TEMP COEFF. dvz (%/°C) |
|----------|---------------|---------|---------------------|-----------------------|-------------------------|---------|------------------------|
| | Vz(V) | IzT(mA) | Rz (ohms) IzT(mA) | IzT = 1.0mA Rz (ohms) | VR (V) | IR (uA) | |
| ZMM5221B | 2.4 | 20 | 30 | 1200 | 1.0 | 100 | -0.085 |
| ZMM5222B | 2.5 | 20 | 30 | 1250 | 1.0 | 100 | -0.085 |
| ZMM5223B | 2.7 | 20 | 30 | 1300 | 1.0 | 75 | -0.080 |
| ZMM5224B | 2.8 | 20 | 30 | 1400 | 1.0 | 75 | -0.080 |
| ZMM5225B | 3.0 | 20 | 29 | 1600 | 1.0 | 50 | -0.075 |

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ELECTRICAL CHARACTERISTICS (Ta = 25°C unless specified otherwise)

| TYPE | ZENER VOLTAGE | | MAX ZENER IMPEDANCE | MAX ZENER IMPEDANCE | MAXIMUM REVERSE CURRENT | | TEMP COEFF. dvz (%/°C) |
|----------|---------------|---------|----------------------|--------------------------|-------------------------|---------|------------------------|
| | Vz(V) | IzT(mA) | Rz (ohms) IzT(mA) | IzT = 1.0mA Rz (ohms) | VR (V) | IR (uA) | |
| ZMM5226B | 3.3 | 20 | 28 | 1600 | 1.0 | 25 | -0.070 |
| ZMM5227B | 3.6 | 20 | 24 | 1700 | 1.0 | 15 | -0.065 |
| ZMM5228B | 3.9 | 20 | 23 | 1900 | 1.0 | 10 | -0.060 |
| ZMM5229B | 4.3 | 20 | 22 | 2000 | 1.0 | 5 | +/-0.055 |
| ZMM5230B | 4.7 | 20 | 19 | 1900 | 2.0 | 5 | +/-0.030 |
| ZMM5231B | 5.1 | 20 | 17 | 1600 | 2.0 | 5 | +/-0.030 |
| ZMM5232B | 5.6 | 20 | 11 | 1600 | 3.0 | 5 | +0.038 |
| ZMM5233B | 6.0 | 20 | 7 | 1600 | 3.5 | 5 | +0.038 |
| ZMM5234B | 6.2 | 20 | 7 | 1000 | 4.0 | 5 | +0.045 |
| ZMM5235B | 6.8 | 20 | 5 | 750 | 5.6 | 3.0 | +0.050 |
| ZMM5236B | 7.5 | 20 | 6 | 500 | 6.0 | 3.0 | +0.058 |
| ZMM5237B | 8.2 | 20 | 8 | 500 | 6.5 | 3.0 | +0.062 |
| ZMM5238B | 8.7 | 20 | 8 | 600 | 6.5 | 3.0 | +0.065 |
| ZMM5239B | 9.1 | 20 | 10 | 600 | 7.0 | 3.0 | +0.068 |
| ZMM5240B | 10 | 20 | 17 | 600 | 8.0 | 3.0 | +0.075 |
| ZMM5241B | 11 | 20 | 22 | 600 | 8.4 | 2.0 | +0.076 |
| ZMM5242B | 12 | 20 | 30 | 600 | 9.1 | 1.0 | +0.077 |
| ZMM5243B | 13 | 9.5 | 13 | 600 | 9.9 | 0.5 | +0.079 |
| ZMM5244B | 14 | 9.0 | 15 | 600 | 10 | 0.1 | +0.082 |
| ZMM5245B | 15 | 8.5 | 16 | 600 | 11 | 0.1 | +0.082 |
| ZMM5246B | 16 | 7.8 | 17 | 600 | 12 | 0.1 | +0.083 |
| ZMM5247B | 17 | 7.4 | 19 | 600 | 13 | 0.1 | +0.084 |
| ZMM5248B | 18 | 7.0 | 21 | 600 | 14 | 0.1 | +0.085 |
| ZMM5249B | 19 | 6.6 | 23 | 600 | 14 | 0.1 | +0.086 |
| ZMM5250B | 20 | 6.2 | 25 | 600 | 15 | 0.1 | +0.086 |
| ZMM5251B | 22 | 5.6 | 29 | 600 | 17 | 0.1 | +0.087 |
| ZMM5252B | 24 | 5.2 | 33 | 600 | 18 | 0.1 | +0.088 |
| ZMM5253B | 25 | 5.0 | 35 | 600 | 19 | 0.1 | +0.089 |
| ZMM5254B | 27 | 4.6 | 41 | 600 | 21 | 0.1 | +0.090 |
| ZMM5255B | 28 | 4.5 | 44 | 600 | 21 | 0.1 | +0.091 |
| ZMM5256B | 30 | 4.2 | 49 | 600 | 23 | 0.1 | +0.091 |
| ZMM5257B | 33 | 3.8 | 58 | 700 | 25 | 0.1 | +0.092 |
| ZMM5258B | 36 | 3.4 | 70 | 700 | 27 | 0.1 | +0.093 |
| ZMM5259B | 39 | 3.2 | 80 | 800 | 30 | 0.1 | +0.094 |
| ZMM5260B | 43 | 3 | 93 | 900 | 33 | 0.1 | +0.095 |
| ZMM5261B | 47 | 2.7 | 150 | 1000 | 36 | 0.1 | +0.095 |