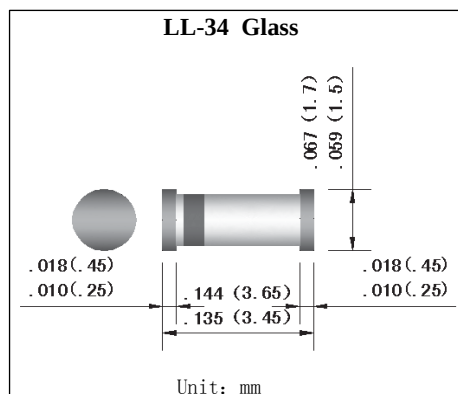


## 特征 Features



- 反向漏电流小。 Low reverse leakage
- 齐纳击穿阻抗低。 Low zener impedance
- 最大功率耗散500mW。 Maximum power dissipation of 500 mW
- 高稳定性和可靠性。 High stability and high reliability
- 引线 and 管体皆符合RoHS标准。 Lead and body according with RoHS standard

## 机械数据 Mechanical Data

- 封装: LL-34 玻璃封装 Case: LL-34 Glass Case
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性  $T_A = 25^\circ\text{C}$  除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at  $25^\circ\text{C}$  ambient temperature unless otherwise specified.

| 参数 Parameter                        | 符号 Symbols | 数值 Value     | 单位 Unit          |
|-------------------------------------|------------|--------------|------------------|
| 功率消耗 Power Dissipation              | Pd         | 500          | mW               |
| 工作结温 Operating junction temperature | $T_j$      | 175          | $^\circ\text{C}$ |
| 存储温度 Storage temperature range      | $T_s$      | -55 --- +150 | $^\circ\text{C}$ |

电特性  $T_A = 25^\circ\text{C}$

Electrical Characteristics Ratings at  $25^\circ\text{C}$  ambient temperature

$V_F \leq 1.1\text{V}$  @  $I_F = 200\text{mA}$

| 型号<br>Type | 稳压范围<br>Zener Voltage |         |         |                        | 反向特性<br>Reverse Current |                        | 动态电阻<br>Dynamic Resistance |                        |
|------------|-----------------------|---------|---------|------------------------|-------------------------|------------------------|----------------------------|------------------------|
|            | $V_Z(\text{V})$       |         |         | 测试条件<br>Test condition | $I_R(\mu\text{A})$      | 测试条件<br>Test condition | $r_d(\Omega)$              | 测试条件<br>Test condition |
|            | 额定值Nom.               | 最小值MIN. | 最大值MAX. | $I_Z(\text{mA})$       | 最大值 MAX.                | $V_R(\text{V})$        | 最大值 MAX.                   | $I_Z(\text{mA})$       |
| ZMM5221B   | 2.4                   | 2.28    | 2.52    | 20                     | 100                     | 1.0                    | 30                         | 20                     |
| ZMM5222B   | 2.5                   | 2.38    | 2.63    | 20                     | 100                     | 1.0                    | 30                         | 20                     |
| ZMM5223B   | 2.7                   | 2.57    | 2.83    | 20                     | 75                      | 1.0                    | 30                         | 20                     |
| ZMM5224B   | 2.8                   | 2.66    | 2.94    | 20                     | 75                      | 1.0                    | 30                         | 20                     |
| ZMM5225B   | 3.0                   | 2.85    | 3.15    | 20                     | 50                      | 1.0                    | 29                         | 20                     |
| ZMM5226B   | 3.3                   | 3.13    | 3.46    | 20                     | 25                      | 1.0                    | 28                         | 20                     |
| ZMM5227B   | 3.6                   | 3.42    | 3.78    | 20                     | 15                      | 1.0                    | 24                         | 20                     |
| ZMM5228B   | 3.9                   | 3.71    | 4.09    | 20                     | 10                      | 1.0                    | 23                         | 20                     |
| ZMM5229B   | 4.3                   | 4.09    | 4.51    | 20                     | 5                       | 1.0                    | 22                         | 20                     |
| ZMM5230B   | 4.7                   | 4.47    | 4.93    | 20                     | 5                       | 2.0                    | 19                         | 20                     |
| ZMM5231B   | 5.1                   | 4.85    | 5.35    | 20                     | 5                       | 2.0                    | 17                         | 20                     |
| ZMM5232B   | 5.6                   | 5.32    | 5.88    | 20                     | 5                       | 3.0                    | 11                         | 20                     |
| ZMM5233B   | 6.0                   | 5.70    | 6.30    | 20                     | 5                       | 3.5                    | 7                          | 20                     |
| ZMM5234B   | 6.2                   | 5.89    | 6.51    | 20                     | 3                       | 4.0                    | 7                          | 20                     |
| ZMM5235B   | 6.8                   | 6.46    | 7.14    | 20                     | 3                       | 5.0                    | 5                          | 20                     |
| ZMM5236B   | 7.5                   | 7.13    | 7.87    | 20                     | 3                       | 6.0                    | 6                          | 20                     |
| ZMM5237B   | 8.2                   | 7.79    | 8.61    | 20                     | 3                       | 6.5                    | 8                          | 20                     |
| ZMM5238B   | 8.7                   | 8.27    | 9.13    | 20                     | 3                       | 6.5                    | 8                          | 20                     |

| 型号<br>Type | 稳压范围<br>Zener Voltage |         |         |                        | 反向特性<br>Reverse Current |                        | 动态电阻<br>Dynamic Resistance |                        |
|------------|-----------------------|---------|---------|------------------------|-------------------------|------------------------|----------------------------|------------------------|
|            | V <sub>Z</sub> (V)    |         |         | 测试条件<br>Test condition | I <sub>R</sub> (μA)     | 测试条件<br>Test condition | rd(Ω)                      | 测试条件<br>Test condition |
|            | 额定值Nom.               | 最小值MIN. | 最大值MAX. | I <sub>Z</sub> (mA)    | 最大值 MAX.                | V <sub>R</sub> (V)     | 最大值 MAX.                   | I <sub>Z</sub> (mA)    |
| ZMM5239B   | 9.1                   | 8.65    | 9.55    | 20                     | 3                       | 7.0                    | 10                         | 20                     |
| ZMM5240B   | 10                    | 9.50    | 10.50   | 20                     | 3                       | 8.0                    | 17                         | 20                     |
| ZMM5241B   | 11                    | 10.45   | 11.55   | 20                     | 2                       | 8.4                    | 22                         | 20                     |
| ZMM5242B   | 12                    | 11.40   | 12.60   | 20                     | 1                       | 9.1                    | 30                         | 20                     |
| ZMM5243B   | 13                    | 12.35   | 13.65   | 9.5                    | 0.5                     | 9.9                    | 13                         | 9.5                    |
| ZMM5244B   | 14                    | 13.30   | 14.70   | 9.0                    | 0.1                     | 10                     | 15                         | 9.0                    |
| ZMM5245B   | 15                    | 14.25   | 15.75   | 8.5                    | 0.1                     | 11                     | 16                         | 8.5                    |
| ZMM5246B   | 16                    | 15.20   | 16.80   | 7.8                    | 0.1                     | 12                     | 17                         | 7.8                    |
| ZMM5247B   | 17                    | 16.15   | 17.85   | 7.4                    | 0.1                     | 13                     | 19                         | 7.4                    |
| ZMM5248B   | 18                    | 17.10   | 18.90   | 7.0                    | 0.1                     | 14                     | 21                         | 7.0                    |
| ZMM5249B   | 19                    | 18.05   | 19.95   | 6.6                    | 0.1                     | 14                     | 23                         | 6.6                    |
| ZMM5250B   | 20                    | 19.00   | 21.00   | 6.2                    | 0.1                     | 15                     | 25                         | 6.2                    |
| ZMM5251B   | 22                    | 20.90   | 23.10   | 5.6                    | 0.1                     | 17                     | 29                         | 5.6                    |
| ZMM5252B   | 24                    | 22.80   | 25.20   | 5.2                    | 0.1                     | 18                     | 33                         | 5.2                    |
| ZMM5253B   | 25                    | 23.75   | 26.25   | 5.0                    | 0.1                     | 19                     | 35                         | 5.0                    |
| ZMM5254B   | 27                    | 25.65   | 28.35   | 4.6                    | 0.1                     | 21                     | 41                         | 4.6                    |
| ZMM5255B   | 28                    | 26.60   | 29.40   | 4.5                    | 0.1                     | 21                     | 44                         | 4.5                    |
| ZMM5256B   | 30                    | 28.50   | 31.50   | 4.2                    | 0.1                     | 23                     | 49                         | 4.2                    |
| ZMM5257B   | 33                    | 31.35   | 34.65   | 3.8                    | 0.1                     | 25                     | 58                         | 3.8                    |
| ZMM5258B   | 36                    | 34.20   | 37.80   | 3.4                    | 0.1                     | 27                     | 70                         | 3.4                    |
| ZMM5259B   | 39                    | 37.05   | 40.95   | 3.2                    | 0.1                     | 30                     | 80                         | 3.2                    |
| ZMM5260B   | 43                    | 40.85   | 45.15   | 3.0                    | 0.1                     | 33                     | 93                         | 3.0                    |
| ZMM5261B   | 47                    | 44.65   | 49.35   | 2.7                    | 0.1                     | 36                     | 150                        | 2.7                    |
| ZMM5262B   | 51                    | 48.45   | 53.55   | 2.5                    | 0.1                     | 39                     | 125                        | 2.5                    |
| ZMM5263B   | 56                    | 53.20   | 58.80   | 2.2                    | 0.1                     | 43                     | 150                        | 2.2                    |
| ZMM5264B   | 60                    | 57.0    | 63.0    | 2.1                    | 0.1                     | 46                     | 170                        | 2.1                    |
| ZMM5265B   | 62                    | 58.9    | 65.1    | 2.0                    | 0.1                     | 47                     | 185                        | 2.0                    |
| ZMM5266B   | 68                    | 64.6    | 71.4    | 1.8                    | 0.1                     | 52                     | 230                        | 1.8                    |
| ZMM5267B   | 75                    | 71.25   | 78.75   | 1.7                    | 0.1                     | 56                     | 270                        | 1.7                    |