硅外延平面齐纳二极管

MINIMELF情况下，尤其是自动插入。
齐纳电压分级根据国际E24标准。
较小的电压公差和更高的齐纳电压要求。
这些二极管也可与类型指定BZX55C的DO-35的情况下...

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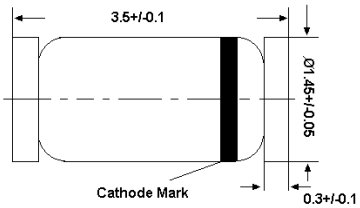



**Glass case MiniMELF**
**Dimensions in mm**

绝对最大额定值（T= 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 $T_a$ = 25 °C**

| Parameter | Symbol | Max. | Unit |
|---|---|---|---|
| Thermal Resistance Junction to Ambient Air | $R_{thA}$ | 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 | | | |

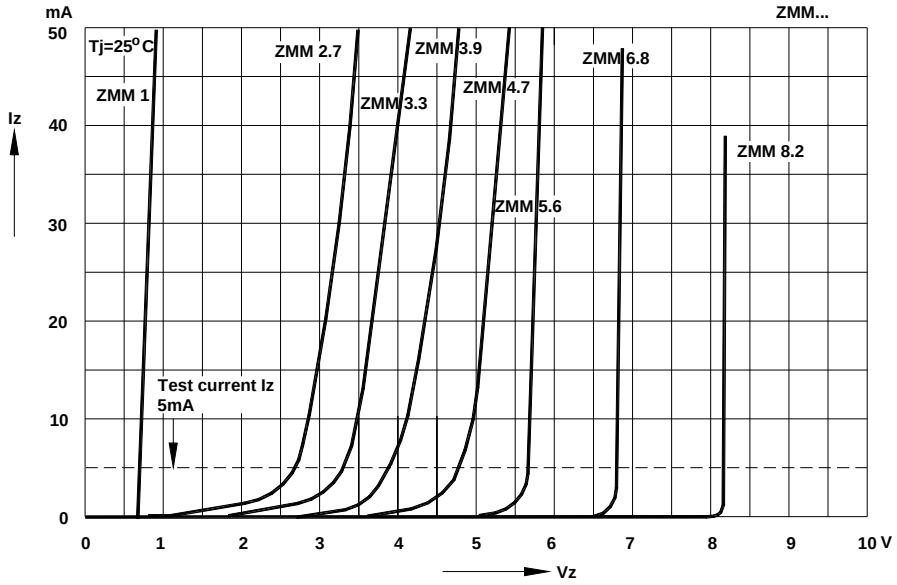
## Characteristics at $T_a$ = 25 °C

| Type | 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) |
| ZMM1[2] | 0.75 | 0.7...0.8 | 5 | 8 | 50 | 1 | - | - | - | -0.26...-0.23 |
| ZMM2V0 | 2 | 1.8...2.15 | 5 | 85 | 600 | 1 | 100 | 200 | 1 | -0.09...-0.06 |
| ZMM2V2 | 2.2 | 2.08...2.33 | 5 | 85 | 600 | 1 | 75 | 160 | 1 | -0.09...-0.06 |
| ZMM2V4 | 2.4 | 2.28...2.56 | 5 | 85 | 600 | 1 | 50 | 100 | 1 | -0.09...-0.06 |
| ZMM2V7 | 2.7 | 2.5...2.9 | 5 | 85 | 600 | 1 | 10 | 50 | 1 | -0.09...-0.06 |
| ZMM3V0 | 3 | 2.8...3.2 | 5 | 85 | 600 | 1 | 4 | 40 | 1 | -0.08...-0.05 |
| ZMM3V3 | 3.3 | 3.1...3.5 | 5 | 85 | 600 | 1 | 2 | 40 | 1 | -0.08...-0.05 |
| ZMM3V6 | 3.6 | 3.4...3.8 | 5 | 85 | 600 | 1 | 2 | 40 | 1 | -0.08...-0.05 |
| ZMM3V9 | 3.9 | 3.7...4.1 | 5 | 85 | 600 | 1 | 2 | 40 | 1 | -0.08...-0.05 |
| ZMM4V3 | 4.3 | 4...4.6 | 5 | 75 | 600 | 1 | 1 | 20 | 1 | -0.06...-0.03 |
| ZMM4V7 | 4.7 | 4.4...5 | 5 | 60 | 600 | 1 | 0.5 | 10 | 1 | -0.05...+0.02 |
| ZMM5V1 | 5.1 | 4.8...5.4 | 5 | 35 | 550 | 1 | 0.1 | 2 | 1 | -0.02...+0.02 |
| ZMM5V6 | 5.6 | 5.2...6 | 5 | 25 | 450 | 1 | 0.1 | 2 | 1 | -0.05...+0.05 |
| ZMM6V2 | 6.2 | 5.8...6.6 | 5 | 10 | 200 | 1 | 0.1 | 2 | 2 | 0.03...0.06 |
| ZMM6V8 | 6.8 | 6.4...7.2 | 5 | 8 | 150 | 1 | 0.1 | 2 | 3 | 0.03...0.07 |
| ZMM7V5 | 7.5 | 7...7.9 | 5 | 7 | 50 | 1 | 0.1 | 2 | 5 | 0.03...0.07 |
| ZMM8V2 | 8.2 | 7.7...8.7 | 5 | 7 | 50 | 1 | 0.1 | 2 | 6.2 | 0.03...0.08 |
| ZMM9V1 | 9.1 | 8.5...9.6 | 5 | 10 | 50 | 1 | 0.1 | 2 | 6.8 | 0.03...0.09 |
| ZMM10 | 10 | 9.4...10.6 | 5 | 15 | 70 | 1 | 0.1 | 2 | 7.5 | 0.03...0.1 |
| ZMM11 | 11 | 10.4...11.6 | 5 | 20 | 70 | 1 | 0.1 | 2 | 8.2 | 0.03...0.11 |
| ZMM12 | 12 | 11.4...12.7 | 5 | 20 | 90 | 1 | 0.1 | 2 | 9.1 | 0.03...0.11 |
| ZMM13 | 13 | 12.4...14.1 | 5 | 26 | 110 | 1 | 0.1 | 2 | 10 | 0.03...0.11 |
| ZMM15 | 15 | 13.8...15.6 | 5 | 30 | 110 | 1 | 0.1 | 2 | 11 | 0.03...0.11 |
| ZMM16 | 16 | 15.3...17.1 | 5 | 40 | 170 | 1 | 0.1 | 2 | 12 | 0.03...0.11 |
| ZMM18 | 18 | 16.8...19.1 | 5 | 50 | 170 | 1 | 0.1 | 2 | 13 | 0.03...0.11 |
| ZMM20 | 20 | 18.8...21.2 | 5 | 55 | 220 | 1 | 0.1 | 2 | 15 | 0.03...0.11 |
| ZMM22 | 22 | 20.8...23.3 | 5 | 55 | 220 | 1 | 0.1 | 2 | 16 | 0.04...0.12 |
| ZMM24 | 24 | 22.8...25.6 | 5 | 80 | 220 | 1 | 0.1 | 2 | 18 | 0.04...0.12 |
| ZMM27 | 27 | 25.1...28.9 | 5 | 80 | 220 | 1 | 0.1 | 2 | 20 | 0.04...0.12 |
| ZMM30 | 30 | 28...32 | 5 | 80 | 220 | 1 | 0.1 | 2 | 22 | 0.04...0.12 |
| ZMM33 | 33 | 31...35 | 5 | 80 | 220 | 1 | 0.1 | 2 | 24 | 0.04...0.12 |
| ZMM36 | 36 | 34...38 | 5 | 80 | 220 | 1 | 0.1 | 2 | 27 | 0.04...0.12 |
| ZMM39 | 39 | 37...41 | 2.5 | 90 | 500 | 0.5 | 0.1 | 5 | 30 | 0.04...0.12 |
| ZMM43 | 43 | 40...46 | 2.5 | 90 | 500 | 0.5 | 0.1 | 5 | 33 | 0.04...0.12 |
| ZMM47 | 47 | 44...50 | 2.5 | 110 | 600 | 0.5 | 0.1 | 5 | 36 | 0.04...0.12 |
| ZMM51 | 51 | 48...54 | 2.5 | 125 | 700 | 0.5 | 0.1 | 10 | 39 | 0.04...0.12 |
| ZMM56 | 56 | 52...60 | 2.5 | 135 | 700 | 0.5 | 0.1 | 10 | 43 | 0.04...0.12 |
| ZMM62 | 62 | 58...66 | 2.5 | 150 | 1000 | 0.5 | 0.1 | 10 | 47 | 0.04...0.12 |
| ZMM68 | 68 | 64...72 | 2.5 | 200 | 1000 | 0.5 | 0.1 | 10 | 51 | 0.04...0.12 |
| ZMM75 | 75 | 70...79 | 2.5 | 250 | 1000 | 0.5 | 0.1 | 10 | 56 | 0.04...0.12 |

[1] Tested with pulses $t_p$ = 20 ms.

[2] The ZMM1 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.

**Breakdown characteristics**
$T_j$ = constant (pulsed)

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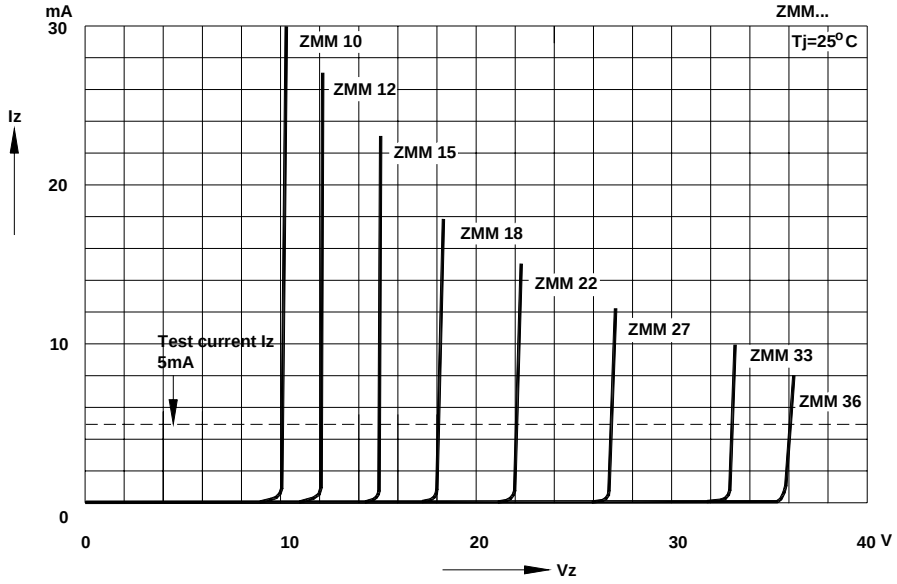
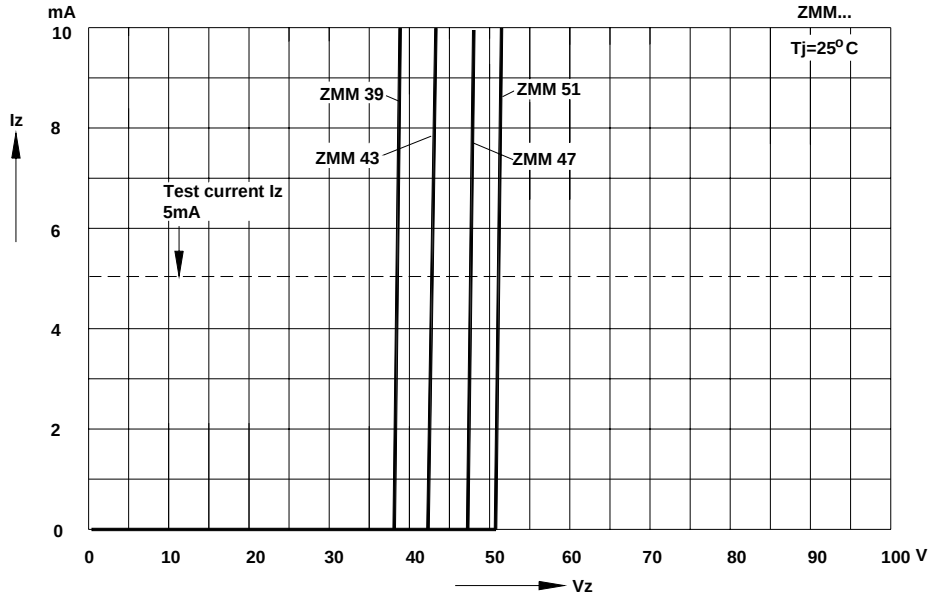
$T_j$ = constant (pulsed)

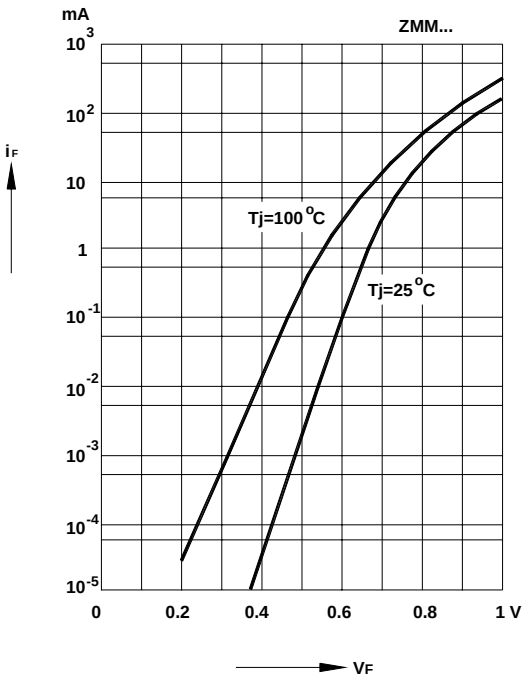


## Breakdown characteristics

$T_j$ = constant (pulsed)




## Forward characteristics




## Admissible power dissipation versus ambient temperature

Valid provided that electrodes are kept at ambient temperature.