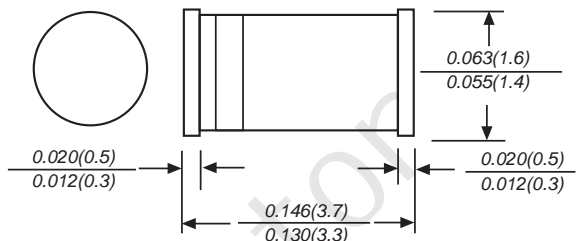


FEATURE

In MiniMELF case especially for automatic insertion.
 These diodes are also available in DO-35 case with
 the type designation BZX55C...

LL-34



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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} | - 55 to + 175 | $^\circ\text{C}$ |

¹⁾ Valid provided that electrodes are kept at ambient temperature

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

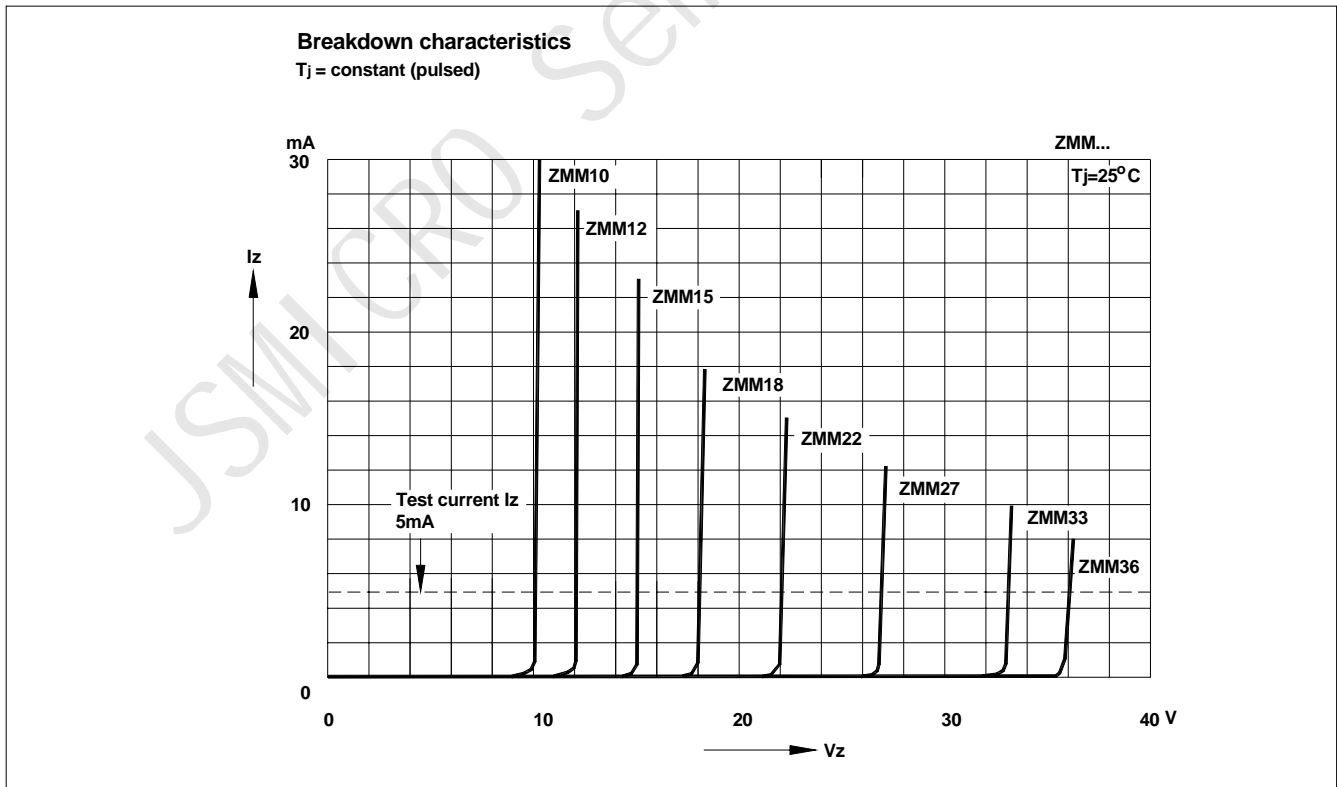
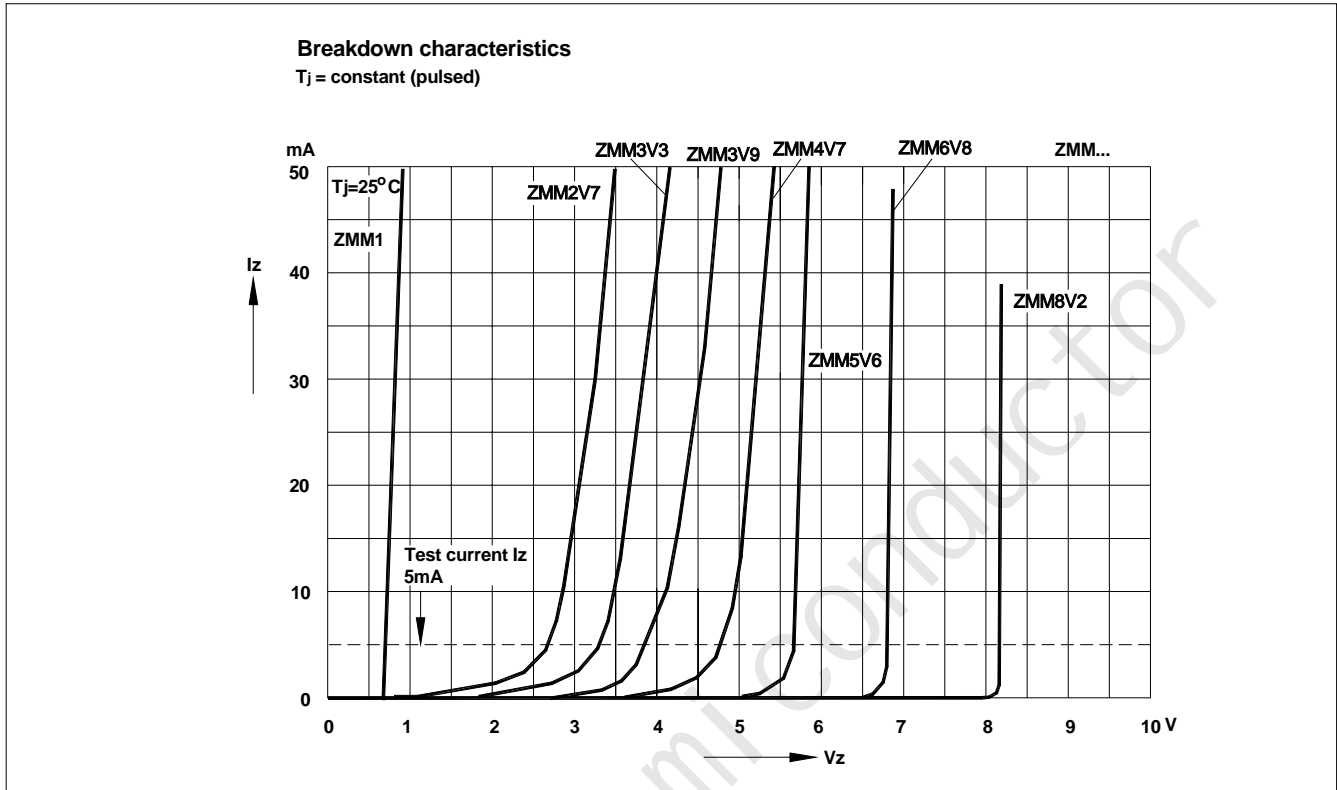
| Parameter | Symbol | Max. | Unit |
|---|-----------------------|-------------------|------|
| Thermal Resistance Junction to Ambient Air | $R_{\theta\text{JA}}$ | 0.3 ¹⁾ | K/mW |
| Forward Voltage at $I_F = 100\text{ mA}$ | V_F | 1 | V |

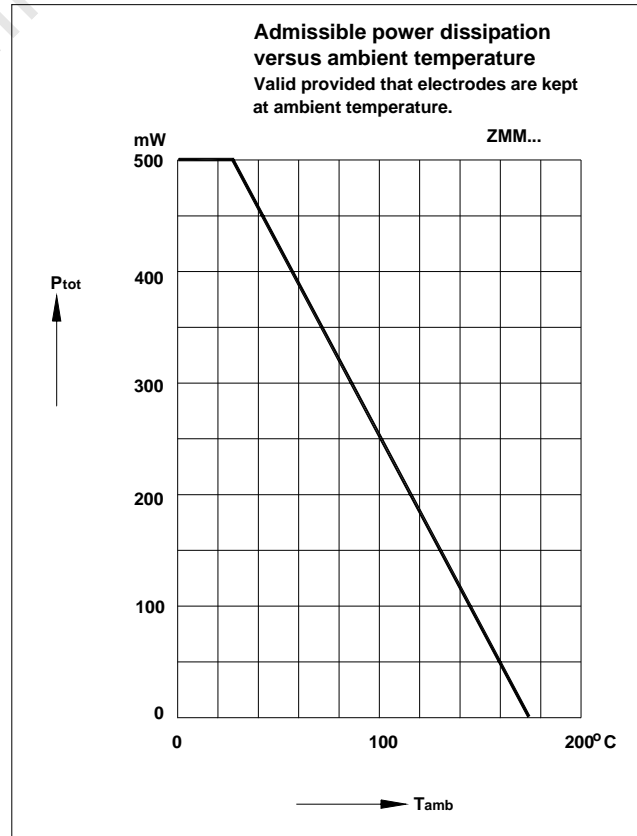
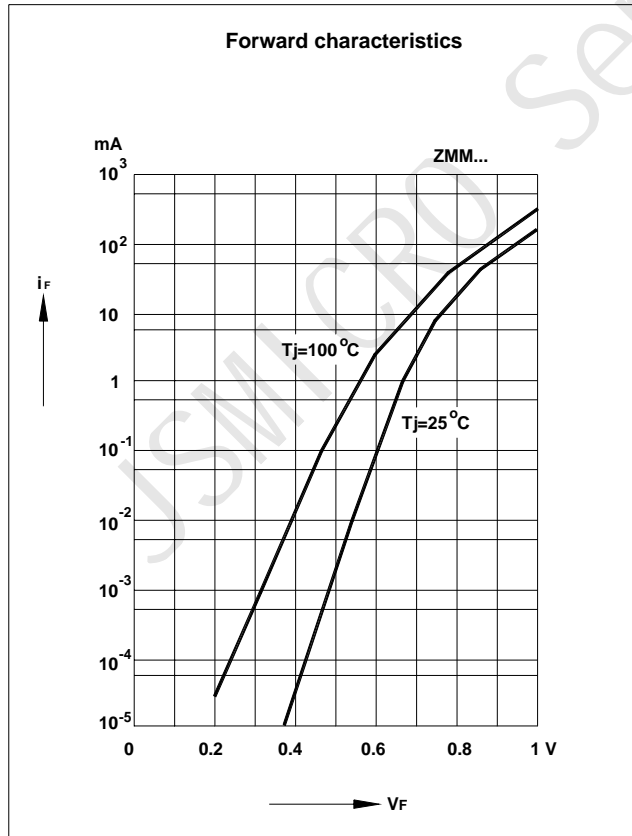
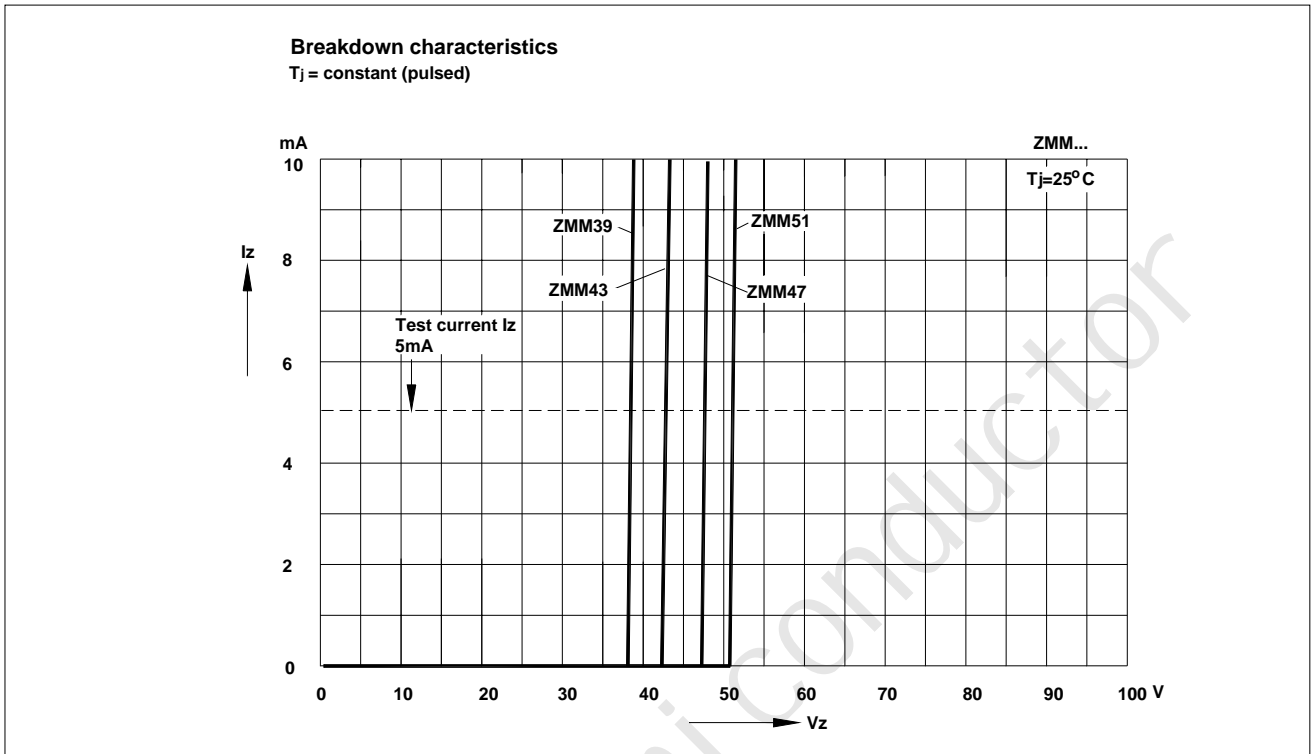
¹⁾ Valid provided that electrodes are kept at ambient temperature

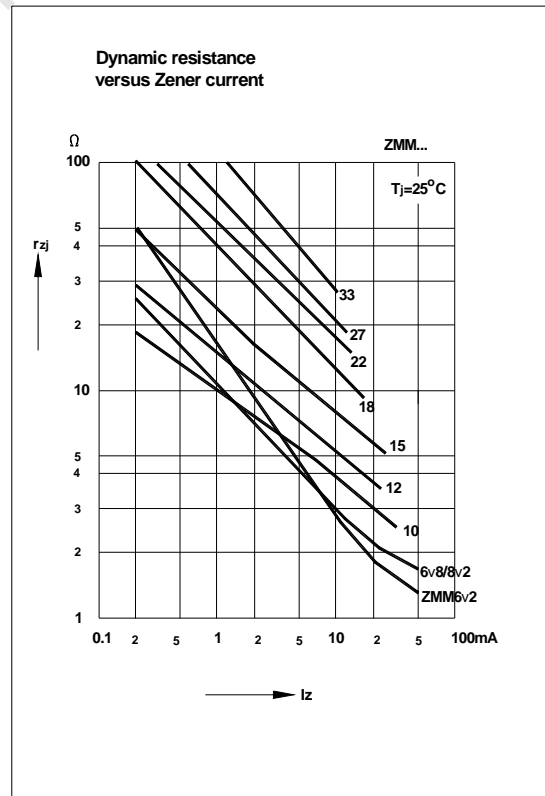
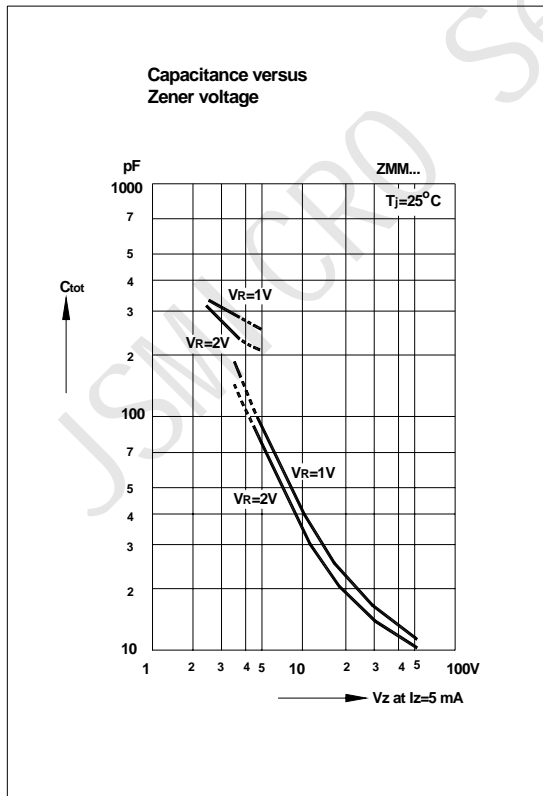
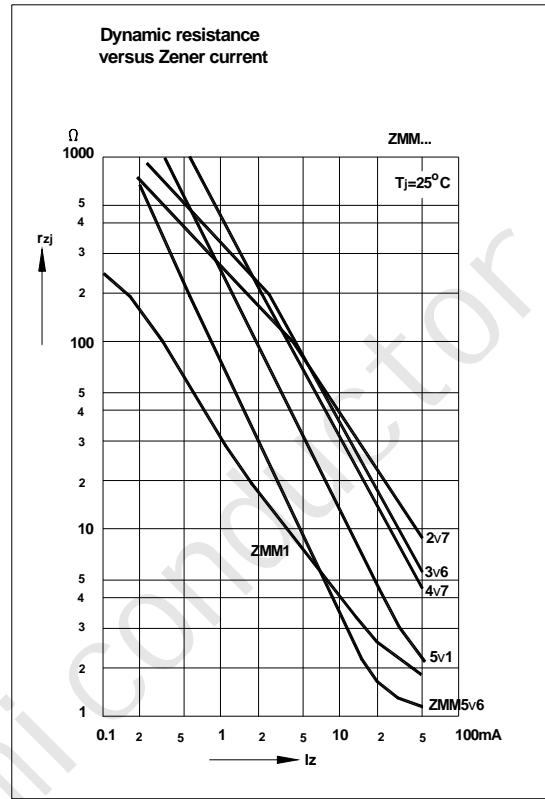
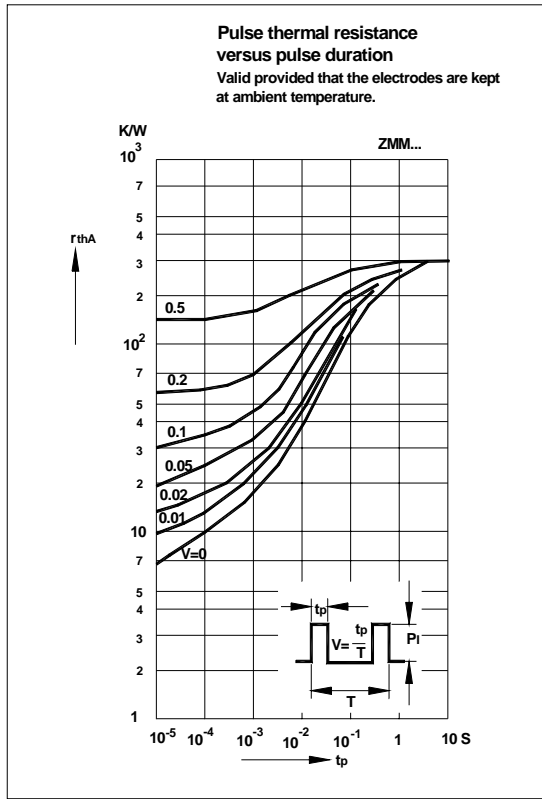
Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

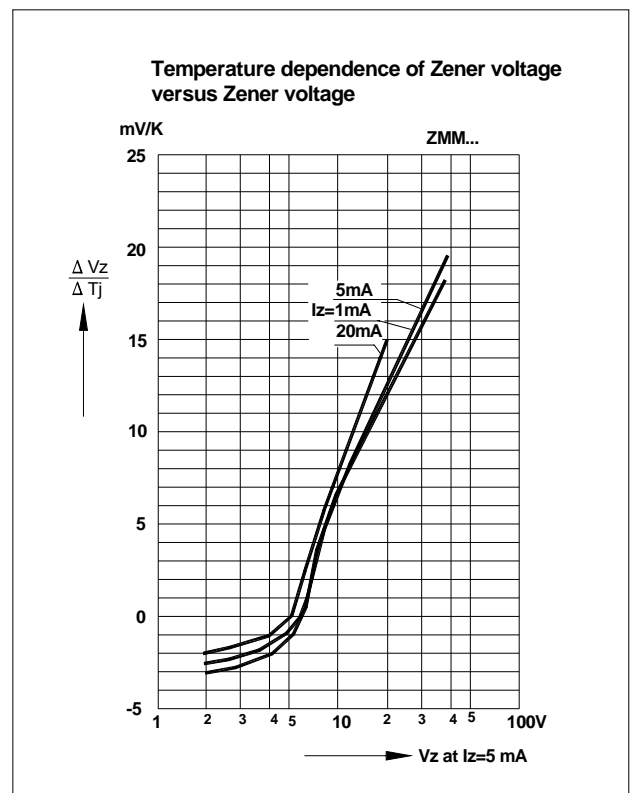
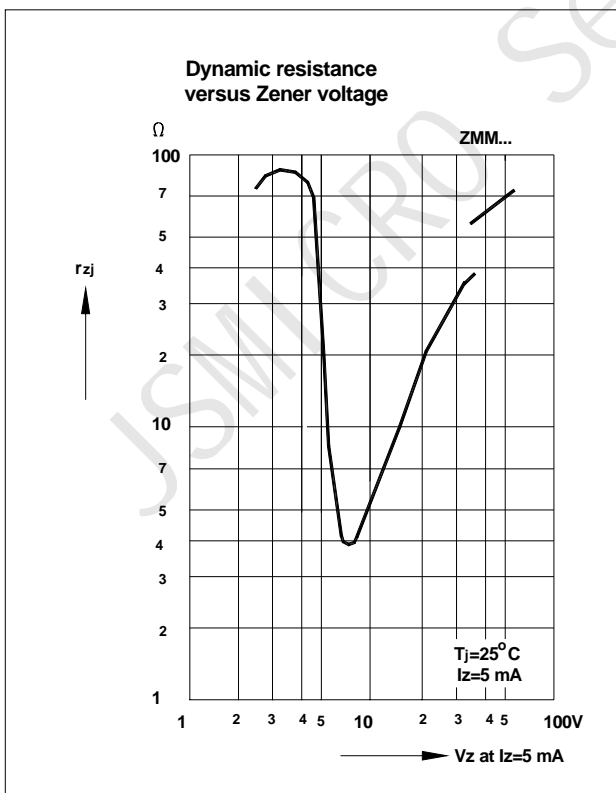
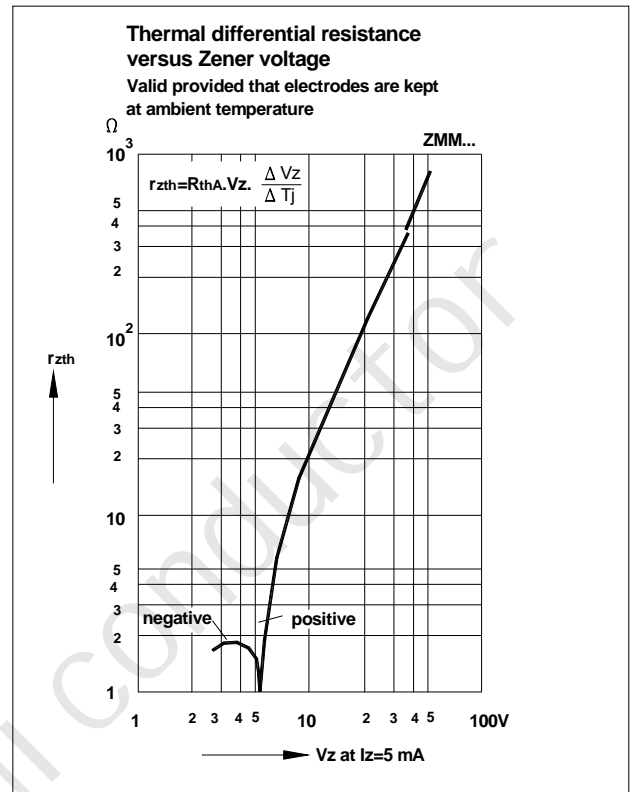
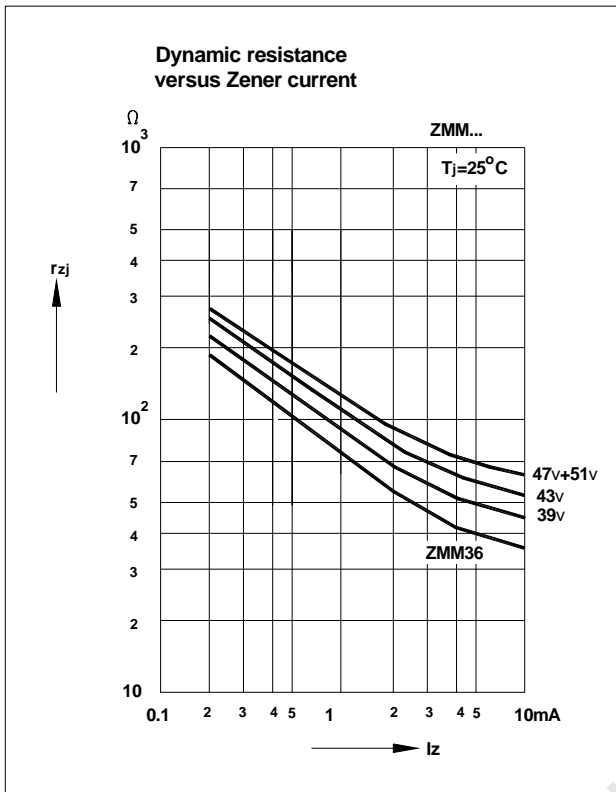
| Type Number | Nominal Zener Voltage (Note 1) | | Zener Voltage Range | Maximum Zener Impedance | Maximum Zener Impedance | | Maximum Leakage Current @ V_R | | | Temperature Coefficient (%/K) |
|-------------|--------------------------------|------|---------------------|-------------------------|-------------------------|------|---------------------------------|---------------------------------|-------|-------------------------------|
| | $V_Z @ I_{ZT}$ | | $V_Z @ I_{ZT}$ | $Z_{ZT} @ I_{ZT}$ | $Z_{ZK} @ I_{ZK}$ | | $I_R @ T_J = 25^\circ\text{C}$ | $I_R @ T_J = 150^\circ\text{C}$ | V_R | |
| | (V) | (mA) | (V) | (Ω) | (Ω) | (mA) | (μA) | (μA) | (V) | |
| ZMM2V4 | 2.4 | 5.0 | 2.28 to 2.56 | 85 | 600 | 1.0 | 50 | 100 | 1.0 | -0.09 to -0.06 |
| ZMM2V7 | 2.7 | 5.0 | 2.5 to 2.9 | 85 | 600 | 1.0 | 10 | 50 | 1.0 | -0.09 to -0.06 |
| ZMM3V0 | 3.0 | 5.0 | 2.8 to 3.2 | 90 | 600 | 1.0 | 4.0 | 40 | 1.0 | -0.08 to -0.05 |
| ZMM3V3 | 3.3 | 5.0 | 3.1 to 3.5 | 90 | 600 | 1.0 | 2.0 | 40 | 1.0 | -0.08 to -0.05 |
| ZMM3V6 | 3.6 | 5.0 | 3.4 to 3.8 | 90 | 600 | 1.0 | 2.0 | 40 | 1.0 | -0.08 to -0.05 |
| ZMM3V9 | 3.9 | 5.0 | 3.7 to 4.1 | 90 | 600 | 1.0 | 2.0 | 40 | 1.0 | -0.08 to -0.05 |
| ZMM4V3 | 4.3 | 5.0 | 4.0 to 4.6 | 90 | 600 | 1.0 | 1.0 | 20 | 1.0 | -0.06 to -0.03 |
| ZMM4V7 | 4.7 | 5.0 | 4.4 to 5.0 | 80 | 600 | 1.0 | 0.5 | 10 | 1.0 | -0.05 to +0.02 |
| ZMM5V1 | 5.1 | 5.0 | 4.8 to 5.4 | 60 | 550 | 1.0 | 0.1 | 2.0 | 1.0 | -0.02 to +0.02 |
| ZMM5V6 | 5.6 | 5.0 | 5.2 to 6.0 | 40 | 450 | 1.0 | 0.1 | 2.0 | 1.0 | -0.05 to +0.05 |
| ZMM6V2 | 6.2 | 5.0 | 5.8 to 6.6 | 10 | 200 | 1.0 | 0.1 | 2.0 | 2.0 | 0.03 to 0.06 |
| ZMM6V8 | 6.8 | 5.0 | 6.4 to 7.2 | 8.0 | 150 | 1.0 | 0.1 | 2.0 | 3.0 | 0.03 to 0.07 |
| ZMM7V5 | 7.5 | 5.0 | 7.0 to 7.9 | 7.0 | 50 | 1.0 | 0.1 | 2.0 | 5.0 | 0.03 to 0.07 |
| ZMM8V2 | 8.2 | 5.0 | 7.7 to 8.7 | 7.0 | 50 | 1.0 | 0.1 | 2.0 | 6.2 | 0.03 to 0.08 |
| ZMM9V1 | 9.1 | 5.0 | 8.5 to 9.6 | 10 | 50 | 1.0 | 0.1 | 2.0 | 6.8 | 0.03 to 0.09 |
| ZMM10 | 10 | 5.0 | 9.4 to 10.6 | 15 | 70 | 1.0 | 0.1 | 2.0 | 7.5 | 0.03 to 0.10 |
| ZMM11 | 11 | 5.0 | 10.4 to 11.6 | 20 | 70 | 1.0 | 0.1 | 2.0 | 8.2 | 0.03 to 0.11 |
| ZMM12 | 12 | 5.0 | 11.4 to 12.7 | 20 | 90 | 1.0 | 0.1 | 2.0 | 9.1 | 0.03 to 0.11 |
| ZMM13 | 13 | 5.0 | 12.4 to 14.1 | 26 | 110 | 1.0 | 0.1 | 2.0 | 10 | 0.03 to 0.11 |
| ZMM15 | 15 | 5.0 | 13.8 to 15.6 | 30 | 110 | 1.0 | 0.1 | 2.0 | 11 | 0.03 to 0.11 |
| ZMM16 | 16 | 5.0 | 15.3 to 17.1 | 40 | 170 | 1.0 | 0.1 | 2.0 | 12 | 0.03 to 0.11 |
| ZMM18 | 18 | 5.0 | 16.8 to 19.1 | 50 | 170 | 1.0 | 0.1 | 2.0 | 13 | 0.03 to 0.11 |
| ZMM20 | 20 | 5.0 | 18.8 to 21.2 | 55 | 220 | 1.0 | 0.1 | 2.0 | 15 | 0.03 to 0.11 |
| ZMM22 | 22 | 5.0 | 20.8 to 23.3 | 55 | 220 | 1.0 | 0.1 | 2.0 | 16 | 0.04 to 0.12 |
| ZMM24 | 24 | 5.0 | 22.8 to 25.6 | 80 | 220 | 1.0 | 0.1 | 2.0 | 18 | 0.04 to 0.12 |
| ZMM27 | 27 | 5.0 | 25.1 to 28.9 | 80 | 220 | 1.0 | 0.1 | 2.0 | 20 | 0.04 to 0.12 |
| ZMM30 | 30 | 5.0 | 28 to 32 | 80 | 220 | 1.0 | 0.1 | 2.0 | 22 | 0.04 to 0.12 |
| ZMM33 | 33 | 5.0 | 31 to 35 | 80 | 220 | 1.0 | 0.1 | 2.0 | 24 | 0.04 to 0.12 |
| ZMM36 | 36 | 5.0 | 34 to 38 | 80 | 220 | 1.0 | 0.1 | 2.0 | 27 | 0.04 to 0.12 |
| ZMM39 | 39 | 2.5 | 37 to 41 | 90 | 500 | 0.5 | 0.1 | 5.0 | 30 | 0.04 to 0.12 |
| ZMM43 | 43 | 2.5 | 40 to 46 | 90 | 600 | 0.5 | 0.1 | 5.0 | 33 | 0.04 to 0.12 |
| ZMM47 | 47 | 2.5 | 44 to 50 | 110 | 700 | 0.5 | 0.1 | 5.0 | 36 | 0.04 to 0.12 |
| ZMM51 | 51 | 2.5 | 48 to 54 | 125 | 700 | 0.5 | 0.1 | 10 | 39 | 0.04 to 0.12 |
| ZMM56 | 56 | 2.5 | 52 to 60 | 135 | 1000 | 0.5 | 0.1 | 10 | 43 | 0.04 to 0.12 |
| ZMM62 | 62 | 2.5 | 58 to 66 | 150 | 1000 | 0.5 | 0.1 | 10 | 47 | 0.04 to 0.12 |
| ZMM68 | 68 | 2.5 | 64 to 72 | 200 | 1000 | 0.5 | 0.1 | 10 | 51 | 0.04 to 0.12 |
| ZMM75 | 75 | 2.5 | 70 to 79 | 250 | 1500 | 0.5 | 0.1 | 10 | 56 | 0.04 to 0.12 |

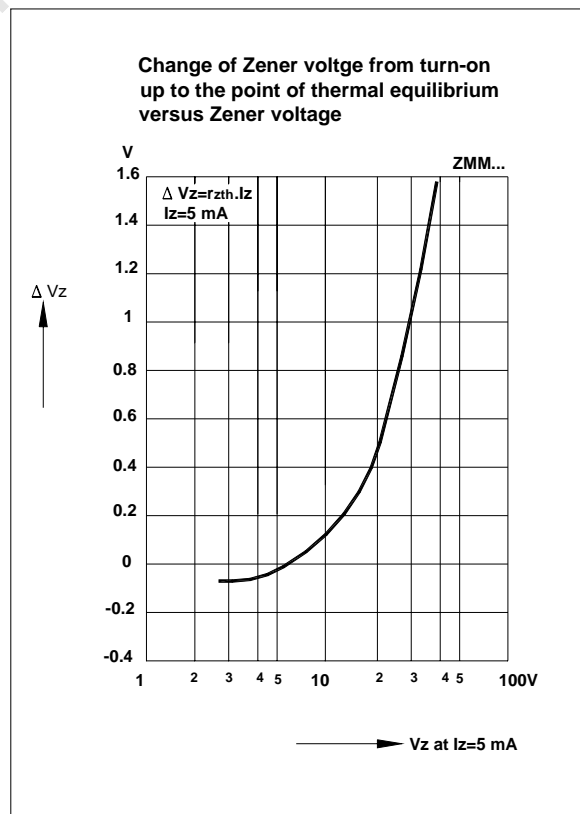
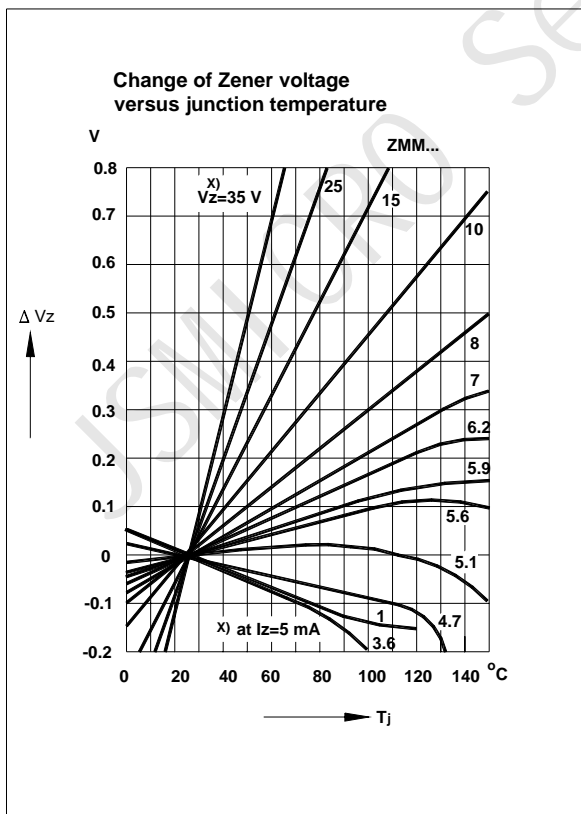
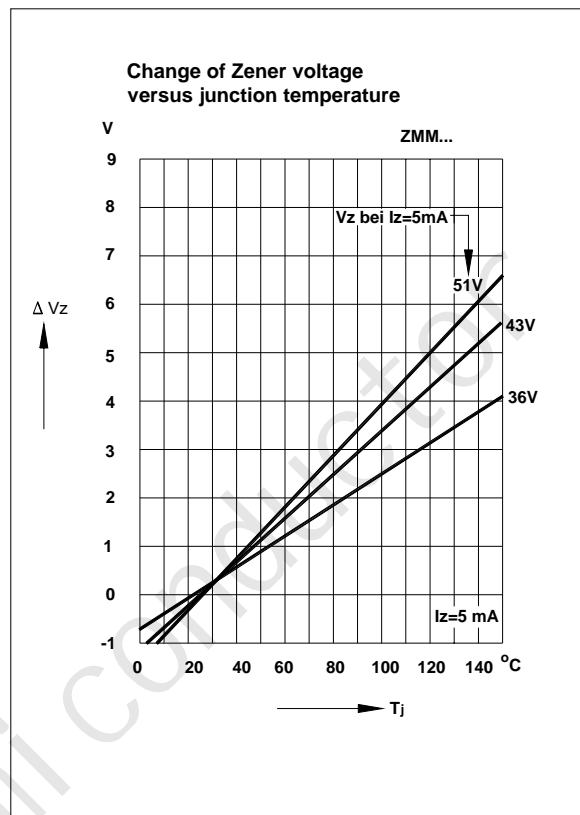
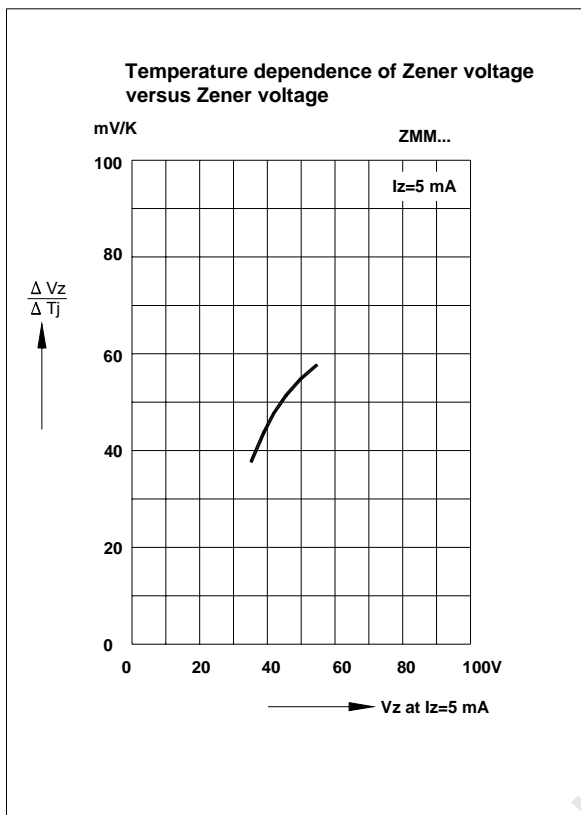
- Notes: 1. Tested with pulses $t_p = 20$ ms.
 2. Valid provided that electrodes are kept at ambient temperature.

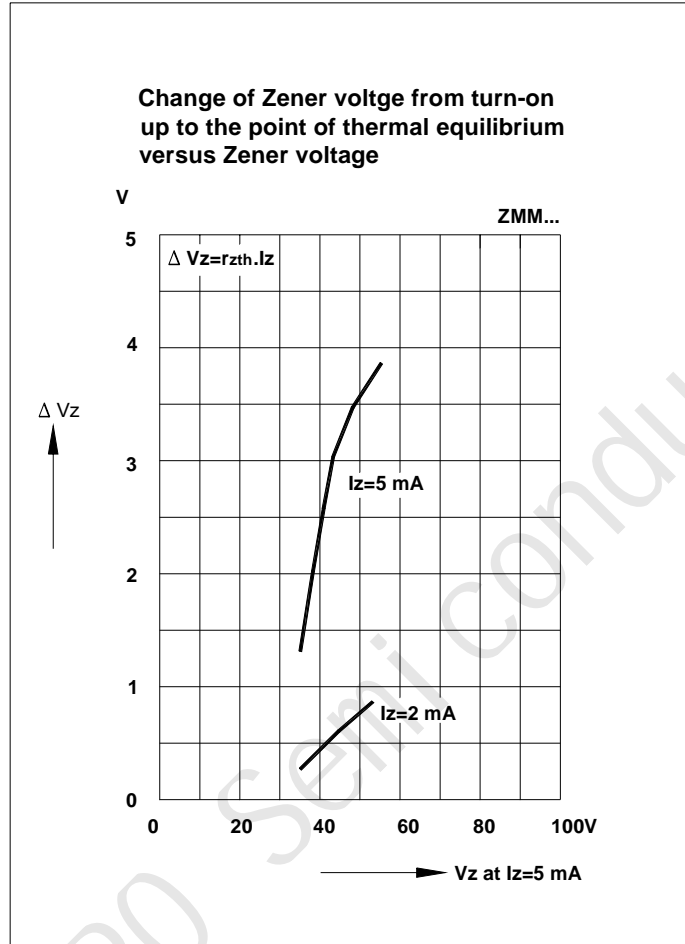












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