



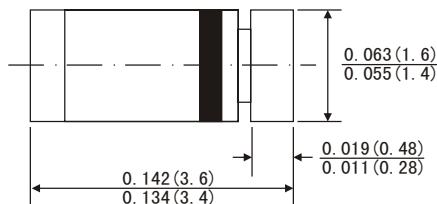
HFZT

ZMM55C2V0---ZMM55C39**ZENER DIODE****PEAK PULSE POWER:500mW****Features**

- Low Reverse Leakage
- Low Zener Impedance
- High Stability and High Reliability

Mechanical Data

- Case: LL34 Glass Case
- Polarity: Color band denotes cathode end
- Mounting Position: Any

MELF(LL34)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

| Parameters | 符号 Symbol | 数值 Value | 单位 Unit |
|--------------------------------|-----------|-------------------|---------|
| Power Dissipation | Pd | 500 ¹⁾ | mW |
| Operating junction temperature | Tj | 175 | °C |
| Storage temperature range | Ts | -55--+175 | °C |

1) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case

Electrical Specification (TA=25@25°C unless otherwise specified)

| TYPE | Zener Voltage | | | Reverse Current | | Dynamic Resistance | |
|-----------|---------------|------|----------------|-----------------|----------------|--------------------|----------------|
| | Vz(V) | | Test Condition | IR(μ A) | Test Condition | rd(Ω) | Test Condition |
| | MIN | MAX | Iz(mA) | Max. | VR(V) | Max. | Iz(mA) |
| ZMM55C2V0 | 1.80 | 2.15 | 5.0 | 100 | 1.0 | 85 | 5.0 |
| ZMM55C2V2 | 2.08 | 2.33 | 5.0 | 75 | 1.0 | 85 | 5.0 |
| ZMM55C2V4 | 2.28 | 2.56 | 5.0 | 50 | 1.0 | 85 | 5.0 |
| ZMM55C2V7 | 2.50 | 2.90 | 5.0 | 10 | 1.0 | 85 | 5.0 |
| ZMM55C3V0 | 2.80 | 3.20 | 5.0 | 4 | 1.0 | 85 | 5.0 |
| ZMM55C3V3 | 3.10 | 3.50 | 5.0 | 2 | 1.0 | 85 | 5.0 |
| ZMM55C3V6 | 3.4 | 3.8 | 5.0 | 2 | 1.0 | 85 | 5.0 |
| ZMM55C3V9 | 3.7 | 4.1 | 5.0 | 2 | 1.0 | 85 | 5.0 |
| ZMM55C4V3 | 4 | 4.6 | 5.0 | 1 | 1.0 | 75 | 5.0 |
| ZMM55C4V7 | 4.4 | 5 | 5.0 | 0.5 | 1.0 | 60 | 5.0 |
| ZMM55C5V1 | 4.8 | 5.4 | 5.0 | 0.1 | 1.0 | 35 | 5.0 |
| ZMM55C5V6 | 5.2 | 6 | 5.0 | 0.1 | 1.0 | 25 | 5.0 |
| ZMM55C6V2 | 5.8 | 6.6 | 5.0 | 0.1 | 2.0 | 10 | 5.0 |
| ZMM55C6V8 | 6.4 | 7.2 | 5.0 | 0.1 | 3.0 | 8 | 5.0 |
| ZMM55C7V5 | 7 | 7.9 | 5.0 | 0.1 | 5.0 | 7 | 5.0 |
| ZMM55C8V2 | 7.7 | 8.7 | 5.0 | 0.1 | 6.2 | 7 | 5.0 |
| ZMM55C9V1 | 8.5 | 9.6 | 5.0 | 0.1 | 6.8 | 10 | 5.0 |



RATINGS AND CHARACTERISTIC CURVES

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

| TYPE | Zener Voltage | | | Reverse Current | | Dynamic Resistance | |
|----------|---------------|------|----------------|---------------------|----------------|--------------------|----------------|
| | Vz(V) | | Test Condition | IR(μA) | Test Condition | rd(Ω) | Test Condition |
| | MIN | MAX | Iz(mA) | Max. | VR(V) | Max. | Iz(mA) |
| ZMM55C10 | 9.4 | 10.6 | 5.0 | 0.1 | 7.5 | 15 | 5.0 |
| ZMM55C11 | 10.4 | 11.6 | 5.0 | 0.1 | 8.2 | 20 | 5.0 |
| ZMM55C12 | 11.4 | 12.7 | 5.0 | 0.1 | 9.1 | 20 | 5.0 |
| ZMM55C13 | 12.4 | 14.1 | 5.0 | 0.1 | 10.0 | 26 | 5.0 |
| ZMM55C14 | 13.3 | 14.7 | 5.0 | 0.1 | 10.0 | 26 | 5.0 |
| ZMM55C15 | 13.8 | 15.6 | 5.0 | 0.1 | 11.0 | 30 | 5.0 |
| ZMM55C16 | 15.3 | 17.1 | 5.0 | 0.1 | 12.0 | 40 | 5.0 |
| ZMM55C18 | 16.8 | 19.1 | 5.0 | 0.1 | 13.0 | 50 | 5.0 |
| ZMM55C20 | 18.8 | 21.2 | 5.0 | 0.1 | 15.0 | 55 | 5.0 |
| ZMM55C22 | 20.8 | 23.3 | 5.0 | 0.1 | 16.0 | 55 | 5.0 |
| ZMM55C24 | 22.8 | 25.6 | 5.0 | 0.1 | 18.0 | 80 | 5.0 |
| ZMM55C27 | 25.1 | 28.9 | 5.0 | 0.1 | 20.0 | 80 | 5.0 |
| ZMM55C30 | 28 | 32 | 5.0 | 0.1 | 22.0 | 80 | 5.0 |
| ZMM55C33 | 31 | 35 | 5.0 | 0.1 | 24.0 | 80 | 5.0 |
| ZMM55C36 | 34 | 38 | 5.0 | 0.1 | 27.0 | 80 | 5.0 |
| ZMM55C39 | 37 | 41 | 2.5 | 0.1 | 30.0 | 90 | 2.5 |

Notes:

- 1) Tested with pulses tp=20ms
- 2) VF(MAX)=1.20V@IF=100mA
- 3) The Zener voltages are graded according to the international E 24 standard .Smaller voltage tolerances and higher Zener voltages are upon request
- 4) These diodes are also available in DO-35 case with the type designation BZX55C....