



Features

- ✧ Zener voltage range 2.0 to 75 volts
- ✧ LL-34(Mini-MELF) package
- ✧ Surface device type mounting
- ✧ Hermetically sealed glass
- ✧ Compression Bonded Construction
- ✧ All external surfaces are corrosion resistant and terminals are readily solderable
- ✧ RoHS compliant
- ✧ Matte Tin(Sn) lead finish
- ✧ Blue color band indicates negative polarity

MINI-MELF



Dimension in millimeters

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

| Type Number | Symbol | Value | Units |
|---|-----------------------------------|--------------|-------|
| Power Dissipation | P _{tot} | 500 | mW |
| Operating and Storage Temperature Range | T _J , T _{STG} | -65 to + 200 | °C |

Notes: These ratings are limiting values above which the serviceability of the diode may be impaired

RATINGS AND CHARACTERISTIC CURVES (BZV55C SERIES)

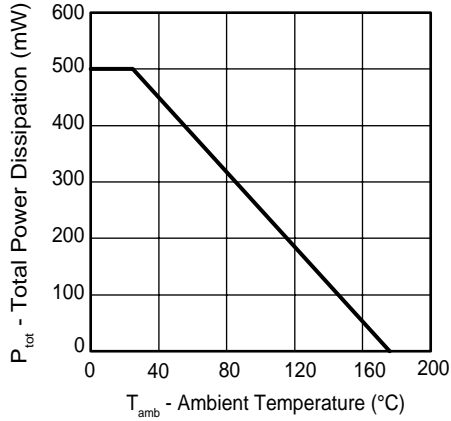


Figure 1. Total Power Dissipation vs. Ambient Temperature

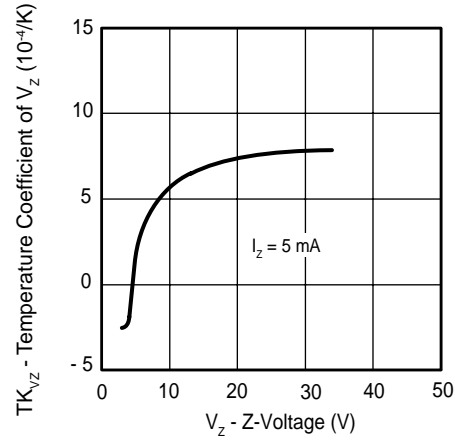


Figure 4. Temperature Coefficient of Vz vs. Z-Voltage

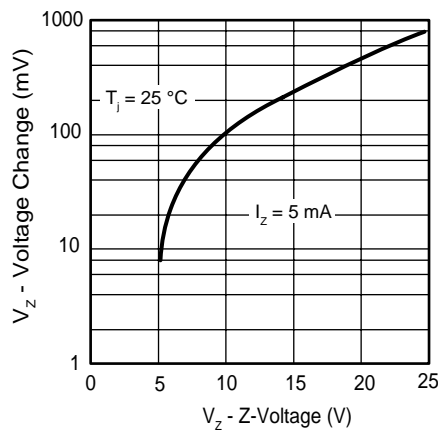


Figure 2. Typical Change of Working Voltage under Operating Conditions at $T_{amb}=25^{\circ}\text{C}$

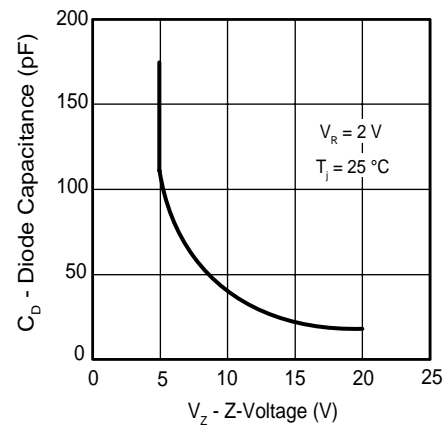


Figure 5. Diode Capacitance vs. Z-Voltage

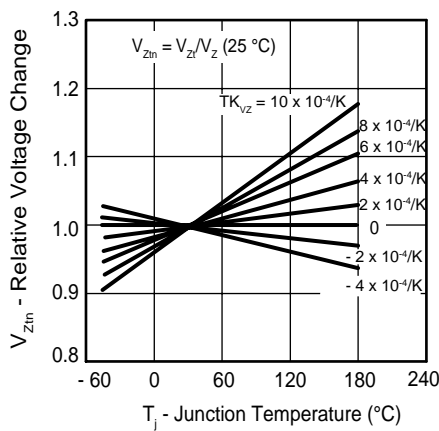


Figure 3. Typical Change of Working Voltage vs. Junction Temperature

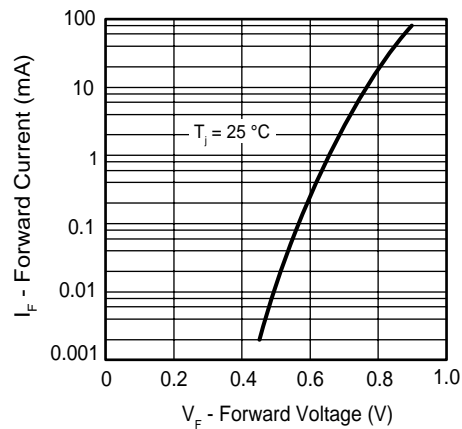


Figure 6. Forward Current vs. Forward Voltage

RATINGS AND CHARACTERISTIC CURVES (BZV55C SERIES)

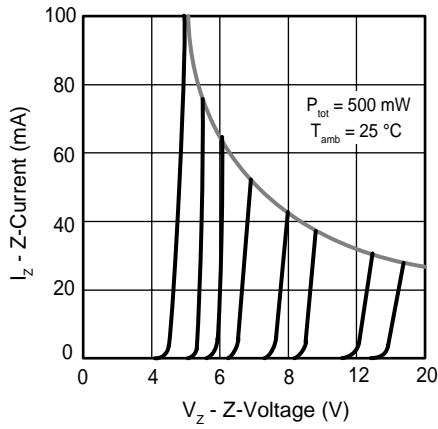


Figure 7. Z-Current vs. Z-Voltage



Figure 9. Differential Z-Resistance vs. Z-Voltage



Figure 8. Z-Current vs. Z-Voltage

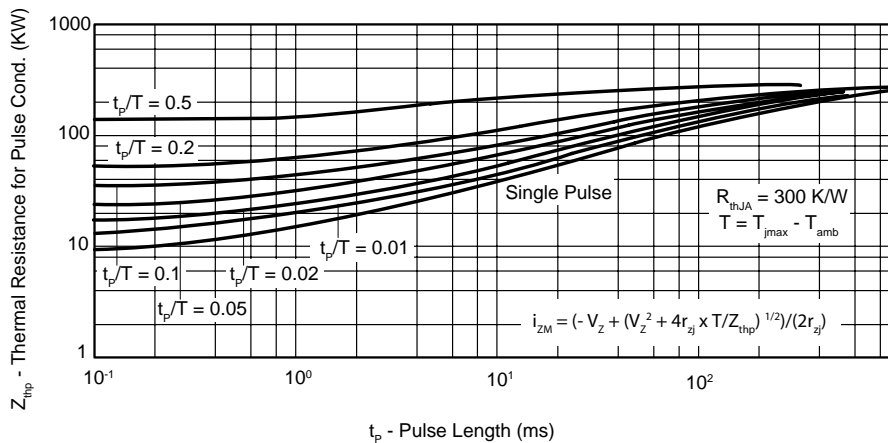


Figure 10. Thermal Response

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

| Type Number | V _Z @ I _{ZT} (Volts) | | I _{ZT} mA | Z _{ZT} @ I _{ZT} Ohms Max | I _{ZK} mA | Z _{ZK} @ I _{ZK} Ohms | I _R @ V _R uA Max | V _R V |
|-------------|---|---------------------------|-----------------------|--|-----------------------|---|--|---------------------|
| | V _Z Min (V) | V _Z Max (V) | | | | | | |
| BZV55C2V0 | 1.88 | 2.11 | 5 | 100 | 1.0 | 600 | 50 | 1.0 |
| BZV55C2V2 | 2.08 | 2.33 | 5 | 100 | 1.0 | 600 | 50 | 1.0 |
| BZV55C2V4 | 2.28 | 2.56 | 5 | 85 | 1.0 | 600 | 50 | 1.0 |
| BZV55C2V7 | 2.51 | 2.89 | 5 | 85 | 1.0 | 600 | 10 | 1.0 |
| BZV55C3V0 | 2.8 | 3.2 | 5 | 85 | 1.0 | 600 | 4 | 1.0 |
| BZV55C3V3 | 3.1 | 3.5 | 5 | 85 | 1.0 | 600 | 2 | 1.0 |
| BZV55C3V6 | 3.4 | 3.8 | 5 | 85 | 1.0 | 600 | 2 | 1.0 |
| BZV55C3V9 | 3.7 | 4.1 | 5 | 85 | 1.0 | 600 | 2 | 1.0 |
| BZV55C4V3 | 4.0 | 4.6 | 5 | 75 | 1.0 | 600 | 1 | 1.0 |
| BZV55C4V7 | 4.4 | 5.0 | 5 | 60 | 1.0 | 600 | 0.5 | 1.0 |
| BZV55C5V1 | 4.8 | 5.4 | 5 | 35 | 1.0 | 550 | 0.1 | 1.0 |
| BZV55C5V6 | 5.2 | 6.0 | 5 | 25 | 1.0 | 450 | 0.1 | 1.0 |
| BZV55C6V2 | 5.8 | 6.6 | 5 | 10 | 1.0 | 200 | 0.1 | 2.0 |
| BZV55C6V8 | 6.4 | 7.2 | 5 | 8 | 1.0 | 150 | 0.1 | 3.0 |
| BZV55C7V5 | 7.0 | 7.9 | 5 | 7 | 1.0 | 50 | 0.1 | 5.0 |
| BZV55C8V2 | 7.7 | 8.7 | 5 | 7 | 1.0 | 50 | 0.1 | 6.2 |
| BZV55C9V1 | 8.5 | 9.6 | 5 | 10 | 1.0 | 50 | 0.1 | 6.8 |
| BZV55C10 | 9.4 | 10.6 | 5 | 15 | 1.0 | 70 | 0.1 | 7.5 |
| BZV55C11 | 10.4 | 11.6 | 5 | 20 | 1.0 | 70 | 0.1 | 8.2 |
| BZV55C12 | 11.4 | 12.7 | 5 | 20 | 1.0 | 90 | 0.1 | 9.1 |
| BZV55C13 | 12.4 | 14.1 | 5 | 26 | 1.0 | 110 | 0.1 | 10 |
| BZV55C15 | 13.8 | 15.6 | 5 | 30 | 1.0 | 110 | 0.1 | 11 |
| BZV55C16 | 15.3 | 17.1 | 5 | 40 | 1.0 | 170 | 0.1 | 12 |
| BZV55C18 | 16.8 | 19.1 | 5 | 50 | 1.0 | 170 | 0.1 | 13 |
| BZV55C20 | 18.8 | 21.1 | 5 | 55 | 1.0 | 220 | 0.1 | 15 |
| BZV55C22 | 20.8 | 23.3 | 5 | 55 | 1.0 | 220 | 0.1 | 16 |
| BZV55C24 | 22.8 | 25.6 | 5 | 80 | 1.0 | 220 | 0.1 | 18 |
| BZV55C27 | 25.1 | 28.9 | 2 | 80 | 1.0 | 220 | 0.1 | 20 |
| BZV55C30 | 28 | 32 | 2 | 80 | 1.0 | 220 | 0.1 | 22 |
| BZV55C33 | 31 | 35 | 2 | 80 | 1.0 | 220 | 0.1 | 24 |
| BZV55C36 | 34 | 38 | 2 | 80 | 1.0 | 220 | 0.1 | 27 |
| BZV55C39 | 37 | 41 | 2 | 90 | 0.5 | 500 | 0.1 | 28 |
| BZV55C43 | 40 | 46 | 2 | 90 | 0.5 | 600 | 0.1 | 32 |
| BZV55C47 | 44 | 50 | 2 | 110 | 0.5 | 700 | 0.1 | 35 |
| BZV55C51 | 48 | 54 | 2 | 125 | 0.5 | 700 | 0.1 | 38 |
| BZV55C56 | 52 | 60 | 2 | 135 | 0.5 | 1000 | 0.1 | 42 |
| BZV55C62 | 58 | 66 | 2.5 | 150 | 0.5 | 1000 | 0.1 | 47 |
| BZV55C68 | 64 | 72 | 2.5 | 160 | 0.5 | 1000 | 0.1 | 51 |
| BZV55C75 | 70 | 80 | 2.5 | 170 | 0.5 | 1000 | 0.1 | 56 |

VF Forward Voltage = 1.0v Maximum @ IF=100mA for all types.

- Notes:
1. The type numbers listed have zener voltage min/max limits as shown.
 2. The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT} or I_{ZK}) is superimposed to I_{ZT} or I_{ZK}.

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