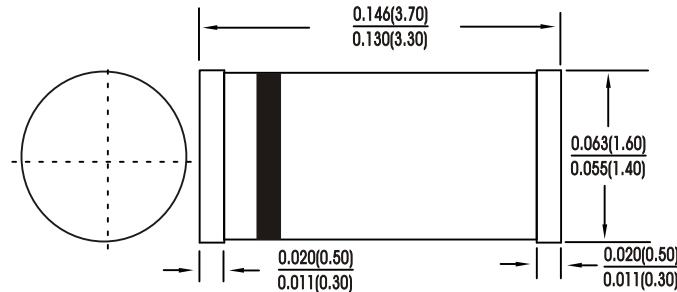


FEATURES:

- Standard Zener voltage tolerance is $\pm 5\%$ AND
SUFFIX "ZMM55A" FOR $\pm 1\%$
SUFFIX "ZMM55B" FOR $\pm 2\%$
SUFFIX "ZMM55C" FOR $\pm 5\%$
SUFFIX "ZMM55D" FOR $\pm 20\%$
- These diodes are also available in QUADRO MELF case
with the type designation ZMM55C(A)(B)(D)2V4.....
ZMM55C(A)(B)(D)75

MECHANICAL DATA

Case: MINI MELF Molded Glass

MINI-MELF SOD-80/DO-213AA

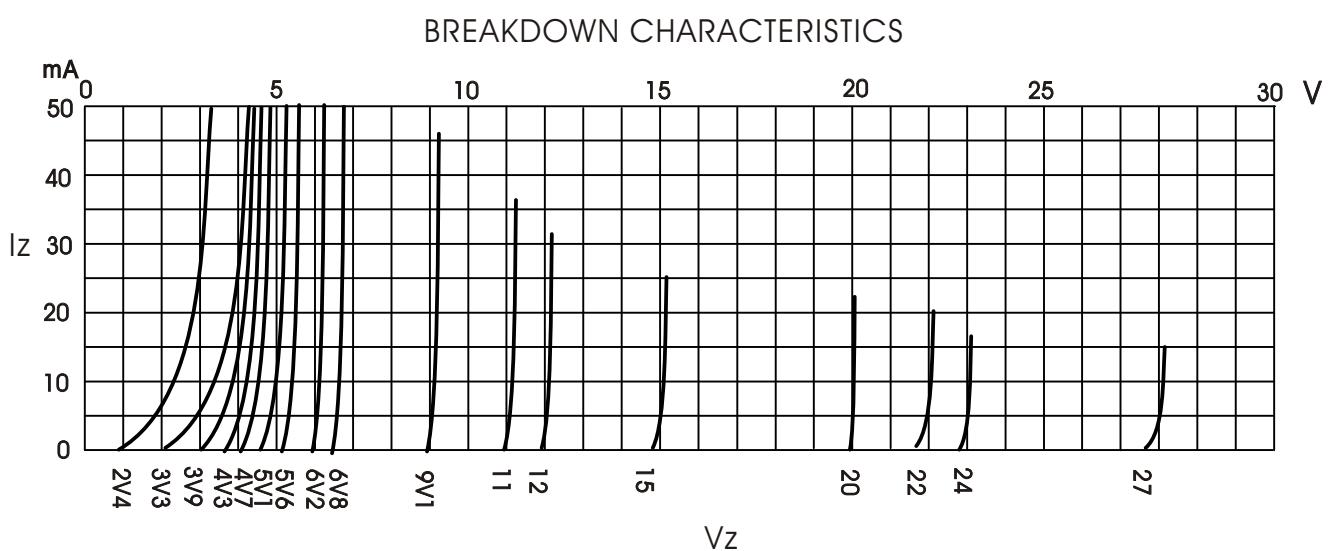
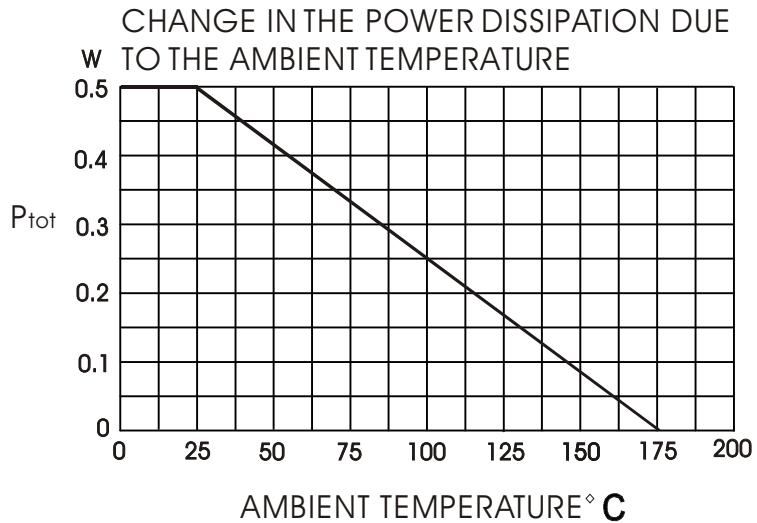
Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temp. unless otherwise specified.
Single phase, half sine wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20 %.

| Characteristic | Symbol | Value | Units |
|---|--------------------|--------------------------------|-------|
| Power Dissipation at Tamb=25 °C | P _{tot} | 0.5 ¹⁾ | W |
| Z-current | I _Z | P _V /V _Z | mA |
| Termal Resistance Junction to Ambient Air | R _{thJ-A} | 0.3 ¹⁾ | K/mW |
| Maximum instantaneous forward voltage drop IF=10 mA DC IF=200 mA DC | V _F | 0.9 1.5 | Volts |
| Junction temperature | T _J | 175 | °C |
| Storage temperature range | T _{stg} | -55 to +175 | °C |

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



ZENER DIODES ZMM55C(A)(B)(D)2V4 THRU ZMM55C(A)(B)(D)757

| Device Type | Nominal Zener Voltage Vz at IzT | Test Current IzT | Maximum Zener Impedance | | | Maximum Reverse Leakage Current | | Typical Temperature coefficient | Maximum Regulator Current IzM |
|-------------|---------------------------------|------------------|-------------------------|------------|-----------|---------------------------------|-----------------------|---------------------------------|-------------------------------|
| | | | ZzT at IzT | ZzK at IzK | IzK | IR | Test Voltage Suffix B | | |
| | Volts | mA | Ω | Ω | mA | μA | Volts | %/ $^{\circ}\text{C}$ | mA |
| ZMM55C2V4 | 2.28-2.56 | 5 | 85 | 600 | 1.0 | 50 | 1.0 | -0.070 | 150 |
| ZMM55C2V7 | 2.5-2.9 | 5 | 85 | 600 | 1.0 | 10 | 1.0 | -0.070 | 135 |
| ZMM55C3V0 | 2.8-3.2 | 5 | 85 | 600 | 1.0 | 4 | 1.0 | -0.070 | 125 |
| ZMM55C3V3 | 3.1-3.5 | 5 | 85 | 600 | 1.0 | 2 | 1.0 | -0.065 | 115 |
| ZMM55C3V6 | 3.4-3.8 | 5 | 85 | 600 | 1.0 | 2 | 1.0 | -0.060 | 105 |
| ZMM55C3V9 | 3.7-4.1 | 5 | 85 | 600 | 1.0 | 2 | 1.0 | -0.050 | 95 |
| ZMM55C4V3 | 4.0-4.6 | 5 | 75 | 600 | 1.0 | 1 | 1.0 | -0.025 | 90 |
| ZMM55C4V7 | 4.4-5.0 | 5 | 60 | 600 | 1.0 | 0.5 | 1.0 | -0.010 | 85 |
| ZMM55C5V1 | 4.8-5.4 | 5 | 35 | 550 | 1.0 | 0.1 | 1.0 | -0.015 | 80 |
| ZMM55C5V6 | 5.2-6.0 | 5 | 25 | 450 | 1.0 | 0.1 | 1.0 | -0.025 | 70 |
| ZMM55C6V2 | 5.8-6.6 | 5 | 10 | 200 | 1.0 | 0.1 | 2.0 | +0.035 | 64 |
| ZMM55C6V8 | 6.4-7.2 | 5 | 8 | 150 | 1.0 | 0.1 | 3.0 | +0.045 | 58 |
| ZMM55C7V5 | 7.0-7.9 | 5 | 7 | 50 | 1.0 | 0.1 | 5.0 | +0.050 | 53 |
| ZMM55C8V2 | 7.7-8.7 | 5 | 7 | 50 | 1.0 | 0.1 | 6.0 | +0.050 | 47 |
| ZMM55C9V1 | 8.5-9.6 | 5 | 10 | 50 | 1.0 | 0.1 | 7.0 | +0.060 | 43 |
| ZMM55C10 | 9.4-10.6 | 5 | 15 | 70 | 1.0 | 0.1 | 7.5 | +0.070 | 40 |
| ZMM55C11 | 10.4-11.6 | 5 | 20 | 70 | 1.0 | 0.1 | 8.5 | +0.070 | 36 |
| ZMM55C12 | 11.4-12.7 | 5 | 20 | 90 | 1.0 | 0.1 | 9.0 | +0.070 | 32 |
| ZMM55C13 | 12.4-14.1 | 5 | 26 | 110 | 1.0 | 0.1 | 10 | +0.070 | 29 |
| ZMM55C15 | 13.8-15.6 | 5 | 30 | 110 | 1.0 | 0.1 | 11 | +0.070 | 27 |
| ZMM55C16 | 15.3-17.1 | 5 | 40 | 170 | 1.0 | 0.1 | 12 | +0.070 | 24 |
| ZMM55C18 | 16.8-19.1 | 5 | 50 | 170 | 1.0 | 0.1 | 14 | +0.070 | 21 |
| ZMM55C20 | 18.8-21.2 | 5 | 55 | 220 | 1.0 | 0.1 | 15 | +0.070 | 20 |
| ZMM55C22 | 20.8-23.3 | 5 | 55 | 220 | 1.0 | 0.1 | 17 | +0.070 | 18 |
| ZMM55C24 | 22.8-25.6 | 5 | 80 | 220 | 1.0 | 0.1 | 18 | +0.080 | 16 |
| ZMM55C27 | 25.1-28.9 | 5 | 80 | 220 | 1.0 | 0.1 | 20 | +0.080 | 14 |
| ZMM55C30 | 28-32 | 5 | 80 | 220 | 1.0 | 0.1 | 22 | +0.080 | 13 |
| ZMM55C33 | 31-35 | 5 | 80 | 220 | 1.0 | 0.1 | 24 | +0.080 | 12 |
| ZMM55C36 | 34-38 | 5 | 80 | 220 | 1.0 | 0.1 | 27 | +0.080 | 11 |
| ZMM55C39 | 37-41 | 2.5 | 90 | 500 | 1.0 | 0.1 | 30 | +0.080 | 10 |
| ZMM55C43 | 40-46 | 2.5 | 90 | 600 | 1.0 | 0.1 | 33 | +0.080 | 9.2 |
| ZMM55C47 | 44-50 | 2.5 | 110 | 700 | 1.0 | 0.1 | 36 | +0.080 | 8.5 |
| ZMM55C51 | 48-54 | 2.5 | 125 | 1000 | 0.5 | 0.1 | 39 | +0.080 | |
| ZMM55C56 | 52-60 | 2.5 | 135 | 1000 | 0.5 | 0.1 | 43 | +0.080 | |
| ZMM55C62 | 58-66 | 2.5 | 150 | 1000 | 0.5 | 0.1 | 47 | +0.080 | |
| ZMM55C68 | 64-72 | 2.5 | 200 | 1000 | 0.5 | 0.1 | 51 | +0.080 | |
| ZMM55C75 | 70-79 | 2.5 | 250 | 1500 | 0.5 | 0.1 | 56 | +0.080 | |

1) STANDARD VOLTAGE TOLERANCE IS $\pm 5\%$ AND
 SUFFIX "ZMM55A" FOR $\pm 1\%$
 SUFFIX "ZMM55B" X FOR $\pm 2\%$
 SUFFIX "ZMM55C" FOR $\pm 5\%$
 SUFFIX "ZMM55D" FOR $\pm 20\%$

1. STANDARS ZENER DIODE 500mW
 Vz TOLERANCE= $\pm 5\%$

2.ZMM=ZENER MINI MELF

3.Vz of zener diode, V code is instead of decimal point. E.g., 3V6=3.6V

4.MEASURED WITH PULSES Tp=20mSec.