

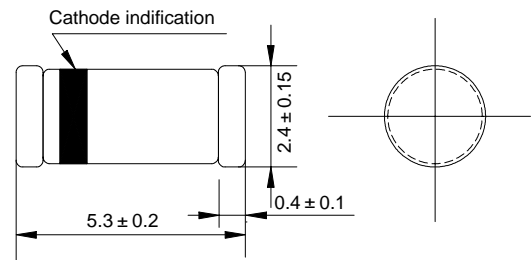

POWER DISSIPATION: 1.0 W
MELF

Features

- ◇ Silicon planar power zener diodes
- ◇ For use in stabilizing and clipping circuits with high power rating.
- ◇ Standard zener voltage tolerance is $\pm 10\%$. Add suffix "A" for $\pm 5\%$ tolerance. other zener voltage and tolerances are available upon request.

Mechanical Data

- ◇ Case: MELF, glass case
- ◇ Terminals: solderable per MIL-STD-202, method 208
- ◇ Polarity: cathode band
- ◇ Marking: type number
- ◇ Approx. weight: 0.25 grams.



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| | SYMBOL | VALUE | UNIT |
|--|------------|-------------------|------|
| Zener current (see Table "Characteristics") | | | |
| Power dissipation @ $T_{amb} \leq 50^\circ\text{C}$ | P_{Diss} | 1.0 ¹⁾ | W |
| Z-current | I_Z | P_V/V_Z | mA |
| Junction temperature | T_J | 175 ¹⁾ | °C |
| Storage temperature range | T_s | -55---+175 | °C |
| Junction ambient $l=9.5\text{mm}(3/8 \text{ "})$, $T_L=\text{constant}$ | R_{ThJA} | 170 | K/W |

| | SYMBOL | MIN | TYP | MAX | UNIT |
|---------------------------------------|--------|-----|-----|-----|------|
| Forward voltage at $I_F=200\text{mA}$ | V_F | — | — | 1.2 | V |

1)Valid provided that electrodes re kept at ambient temperature.

ELECTRICAL CHARACTERISTICS (TA=25°C)

| Type | Nominal zener voltage 1) | Test current | Maximum dynamic impedance | | | Maximum reverse leakage current | | Max surge current 8.3ms | Maximum regulator current 2) |
|--------|--------------------------|--------------|---------------------------|---------|------|---------------------------------|------|-------------------------|------------------------------|
| | Vz@IzT | IzT | IzT@ZzT | Zzk@Izk | Izk | Ir | @VR | IR@Tamb=25°C | IzM@Tamb=50°C |
| | (V) | (mA) | (Ω) | (Ω) | (mA) | (μA) | (V) | (mA) | (mA) |
| DL4728 | 3.3 | 76 | 10 | 400 | 1.0 | 100 | 1 | 1380 | 276 |
| DL4729 | 3.6 | 69 | 10 | 400 | 1.0 | 100 | 1 | 1260 | 252 |
| DL4730 | 3.9 | 64 | 9 | 400 | 1.0 | 50 | 1 | 1190 | 234 |
| DL4731 | 4.3 | 58 | 9 | 400 | 1.0 | 10 | 1 | 1070 | 217 |
| DL4732 | 4.7 | 53 | 8 | 500 | 1.0 | 10 | 1 | 970 | 193 |
| DL4733 | 5.1 | 49 | 7 | 550 | 1.0 | 10 | 1 | 890 | 178 |
| DL4734 | 5.6 | 45 | 5 | 600 | 1.0 | 10 | 2 | 810 | 462 |
| DL4735 | 6.2 | 41 | 2 | 700 | 1.0 | 10 | 3 | 730 | 146 |
| DL4736 | 6.8 | 37 | 3.5 | 700 | 1.0 | 10 | 4 | 660 | 133 |
| DL4737 | 7.5 | 34 | 4.0 | 700 | 0.5 | 10 | 5 | 605 | 121 |
| DL4738 | 8.2 | 31 | 4.5 | 700 | 0.5 | 10 | 6 | 550 | 110 |
| DL4739 | 9.1 | 28 | 5.0 | 700 | 0.5 | 10 | 7 | 500 | 100 |
| DL4740 | 10 | 25 | 7 | 700 | 0.25 | 10 | 7.6 | 454 | 91 |
| DL4741 | 11 | 23 | 8 | 700 | 0.25 | 5 | 8.4 | 414 | 83 |
| DL4742 | 12 | 21 | 9 | 700 | 0.25 | 5 | 9.1 | 380 | 76 |
| DL4743 | 13 | 19 | 10 | 700 | 0.25 | 5 | 9.9 | 344 | 69 |
| DL4744 | 15 | 17 | 14 | 700 | 0.25 | 5 | 11.4 | 304 | 61 |
| DL4745 | 16 | 15.5 | 16 | 700 | 0.25 | 5 | 12.2 | 285 | 57 |
| DL4746 | 18 | 14 | 20 | 750 | 0.25 | 5 | 13.7 | 250 | 50 |
| DL4747 | 20 | 12.5 | 22 | 750 | 0.25 | 5 | 15.2 | 225 | 45 |
| DL4748 | 22 | 11.5 | 23 | 750 | 0.25 | 5 | 16.7 | 205 | 41 |
| DL4749 | 24 | 10.5 | 25 | 750 | 0.25 | 5 | 18.2 | 190 | 38 |
| DL4750 | 27 | 9.5 | 35 | 750 | 0.25 | 5 | 20.6 | 170 | 34 |
| DL4751 | 30 | 8.5 | 40 | 1000 | 0.25 | 5 | 22.8 | 150 | 30 |
| DL4752 | 33 | 7.5 | 45 | 1000 | 0.25 | 5 | 25.1 | 135 | 27 |
| DL4753 | 36 | 7.0 | 50 | 1000 | 0.25 | 5 | 27.4 | 125 | 25 |
| DL4754 | 39 | 6.5 | 60 | 1000 | 0.25 | 5 | 29.7 | 115 | 23 |
| DL4755 | 43 | 6.0 | 70 | 1500 | 0.25 | 5 | 32.7 | 110 | 22 |
| DL4756 | 47 | 5.5 | 80 | 1500 | 0.25 | 5 | 35.8 | 95 | 19 |
| DL4757 | 51 | 5.0 | 95 | 1500 | 0.25 | 5 | 38.8 | 90 | 18 |
| DL4758 | 56 | 4.5 | 110 | 2000 | 0.25 | 5 | 42.6 | 80 | 16 |
| DL4759 | 62 | 4.0 | 125 | 2000 | 0.25 | 5 | 47.1 | 70 | 14 |
| DL4760 | 68 | 3.7 | 150 | 2000 | 0.25 | 5 | 51.7 | 65 | 13 |
| DL4761 | 75 | 3.3 | 175 | 2000 | 0.25 | 5 | 56.0 | 60 | 12 |
| DL4762 | 82 | 3.0 | 200 | 3000 | 0.25 | 5 | 62.2 | 55 | 11 |
| DL4763 | 91 | 2.8 | 250 | 3000 | 0.25 | 5 | 69.2 | 50 | 10 |
| DL4764 | 100 | 2.5 | 350 | 3000 | 0.25 | 5 | 79.0 | 45 | 9 |

1)Based on dc_measurement at thermal equilibrium while maintaining the lead temperature (TL) at 30°C+1°C,9.5mm(3/8")from the Diode body .

2)Valid provided that electrodes at a distance of 10 mm from case kept at ambient temperature.

*)Additional measurement of voltage group 9v1 to 75 at 95% VZMIN ≤ 35nA at Tj25°C

Ratings AND Characteristic Curves

FIG.1 – BREAKDOWN CHARACTERISTICS

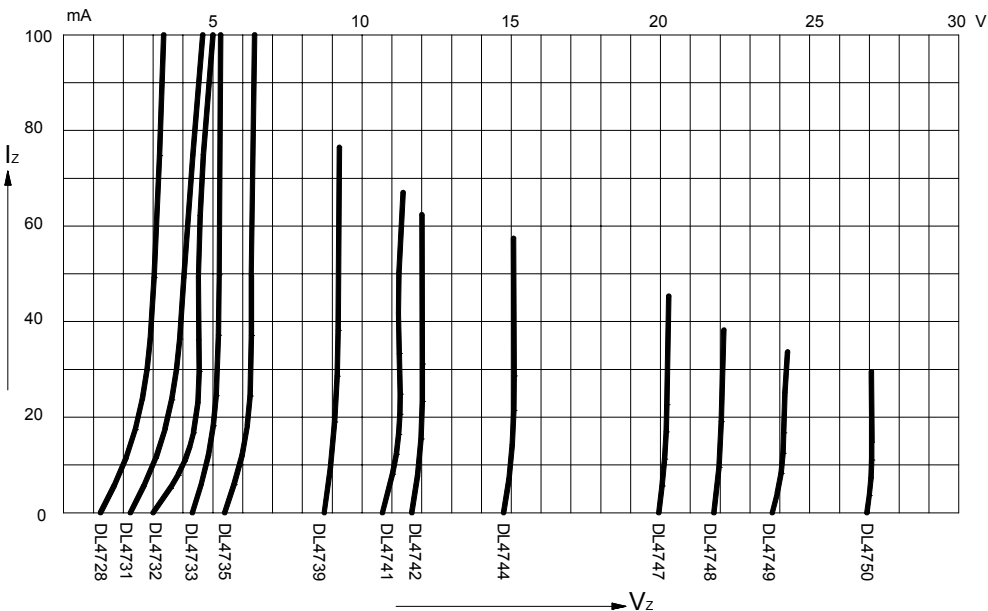
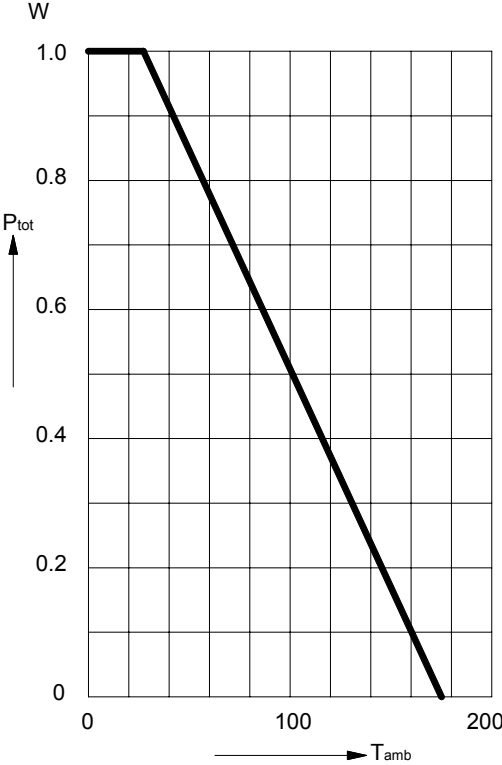


FIG.2 – ADMISSIBLE POWER DISSIPATION VERSUS AMBIENT TEMPERATURE



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