



**POWER DISSIPATION: 1.0 W**

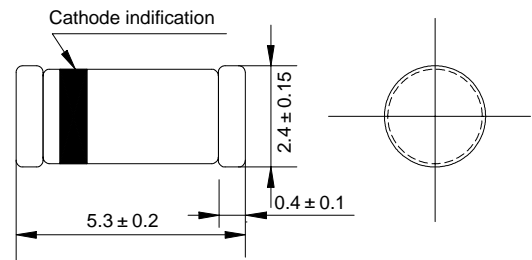
**MELF**

## 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 <sup>1)</sup> | W    |
| Z-current  | $I_Z$      | $P_V/V_Z$         | mA   |
| Junction temperature   | $T_J$      | 175 <sup>1)</sup> | °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                            |

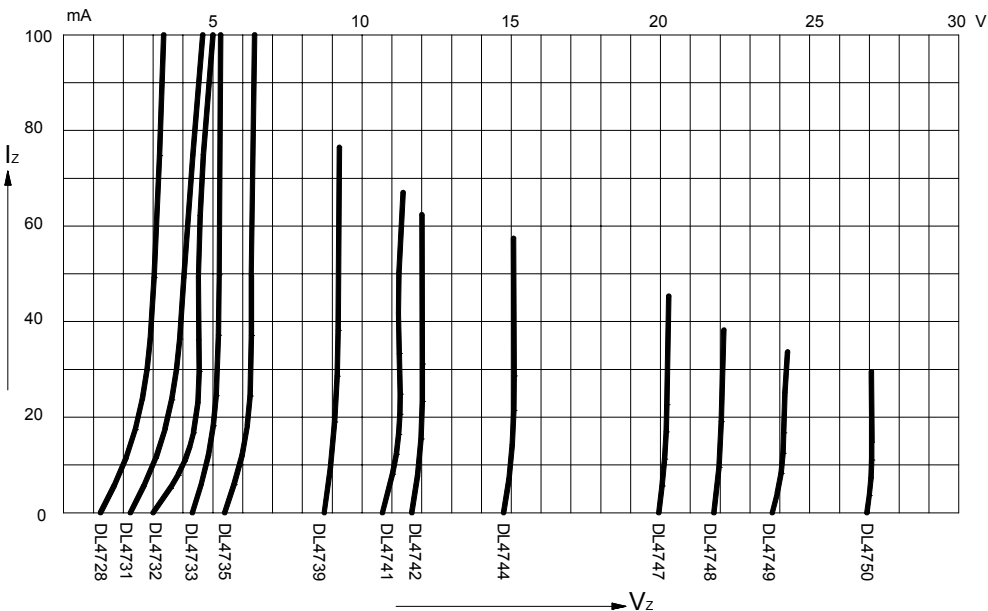
1)Based on dc\_measurement at thermal equilibrium while maintaining the lead temperature (TL) at 30°C+1°C, 9.5mm(3/8") from the Diode body.

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

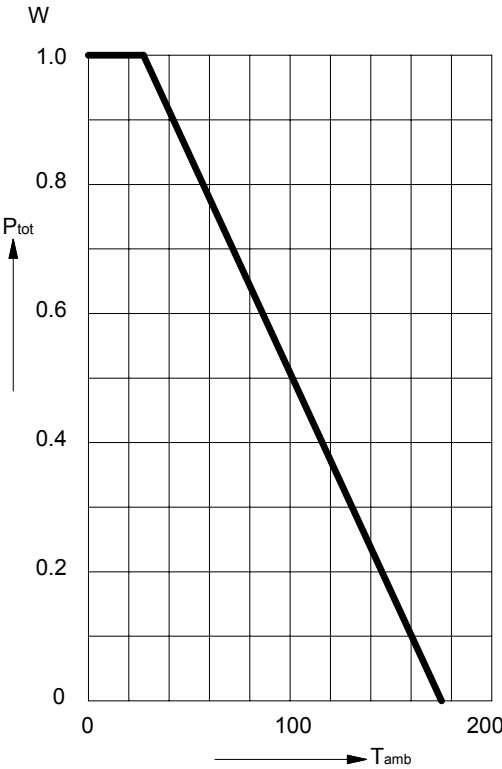
\*Additional measurement of voltage group 9v1 to 75 at 95% VZMIN ≤ 35nA at Tj25°C

# Ratings AND Characteristic Curves

**FIG.1 – BREAKDOWN CHARACTERISTICS**



**FIG.2 – ADMISSIBLE POWER DISSIPATION VERSUS AMBIENT TEMPERATURE**



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Zener Diodes](#) category:*

*Click to view products by [LGE](#) manufacturer:*

Other Similar products are found below :

[RKZ13B2KG#P1](#) [DL5234B](#) [EDZTE6113B](#) [1N4682](#) [1N4691](#) [1N4693](#) [1N4732A](#) [1N4736A](#) [1N4750A](#) [1N4759ARL](#) [1N5241B](#) [1N5365B](#)  
[1N5369B](#) [1N747A](#) [1N959B](#) [1N964B](#) [1N966B](#) [1N968B](#) [1N972B](#) [NTE5121A](#) [NTE5147A](#) [NTE5152A](#) [NTE5155A](#) [NTE5164A](#)  
[JANS1N4974US](#) [1N4692](#) [1N4700](#) [1N4702](#) [1N4704](#) [1N4711](#) [1N4714](#) [1N4737A](#) [1N4745ARL](#) [1N4752A](#) [1N4752ARL](#) [1N4760ARL](#)  
[1N5221B](#) [1N5236B](#) [1N5241BTR](#) [1N5242BTR](#) [1N5350B](#) [1N5352B](#) [1N961BRR1](#) [1N964BRL](#) [RKZ5.1BKU#P6](#) [3SMAJ5946B-TP](#)  
[3SMAJ5950B-TP](#) [3SMBJ5925B-TP](#) [441774C](#) [BZX84C3V9](#)