

ZENER DIODES

T-11-13

1N4729 Series 1 Watt Glass Zener Diodes in DO-41 Package ( $T_A = 25^\circ\text{C}$ )  
 Using the type designations ZM4729, ZM4730 and so on, these Zener diodes are available in the MELF package with the same electrical characteristics.

| Type     | Nominal Zener Voltage $V_Z$ at $I_{ZT}$ * | Test Current $I_{ZT}$ | Maximum Zener Impedance |                      |          | Maximum Reverse Leakage Current |          | Max. Surge Current 8.3 ms $I_{ZS}$ | Maximum Regulator Current $I_{ZM}$ |
|----------|---|-----------------------|-------------------------|----------------------|----------|---------------------------------|----------|------------------------------------|------------------------------------|
|          |   |                       | $Z_{ZT}$ at $I_{ZT}$    | $Z_{ZK}$ at $I_{ZK}$ | $I_{ZK}$ | $I_R$                           | at $V_R$ |                                    |                                    |
|          | Volts                                     | mA                    | Ohms                    | Ohms                 | mA       | $\mu\text{A}$                   | Volts    | mA                                 | mA                                 |
| 1N4729 A | 3.6                                       | 69                    | 10                      | 400                  | 1.0      | 100                             | 1        | 1260                               | 252                                |
| 1N4730 A | 3.9                                       | 64                    | 9                       | 400                  | 1.0      | 100                             | 1        | 1190                               | 234                                |
| 1N4731 A | 4.3                                       | 58                    | 9                       | 400                  | 1.0      | 50                              | 1        | 1070                               | 217                                |
| 1N4732 A | 4.7                                       | 53                    | 8                       | 500                  | 1.0      | 10                              | 1        | 970                                | 193                                |
| 1N4733 A | 5.1                                       | 49                    | 7                       | 550                  | 1.0      | 10                              | 1        | 890                                | 178                                |
| 1N4734 A | 5.6                                       | 45                    | 5                       | 600                  | 1.0      | 10                              | 2        | 810                                | 162                                |
| 1N4735 A | 6.2                                       | 41                    | 2                       | 700                  | 1.0      | 10                              | 3        | 730                                | 146                                |
| 1N4736 A | 6.8                                       | 37                    | 3.5                     | 700                  | 1.0      | 10                              | 4        | 660                                | 133                                |
| 1N4737 A | 7.5                                       | 34                    | 4                       | 700                  | 0.5      | 10                              | 5        | 605                                | 121                                |
| 1N4738 A | 8.2                                       | 31                    | 4.5                     | 700                  | 0.5      | 10                              | 6        | 550                                | 110                                |
| 1N4739 A | 9.1                                       | 28                    | 5                       | 700                  | 0.5      | 10                              | 7        | 500                                | 100                                |
| 1N4740 A | 10  | 25                    | 7                       | 700                  | 0.25     | 10                              | 7.6      | 454                                | 91                                 |
| 1N4741 A | 11  | 23                    | 8                       | 700                  | 0.25     | 5                               | 8.4      | 414                                | 83                                 |
| 1N4742 A | 12  | 21                    | 9                       | 700                  | 0.25     | 5                               | 9.1      | 380                                | 76                                 |
| 1N4743 A | 13  | 19                    | 10                      | 700                  | 0.25     | 5                               | 9.9      | 344                                | 69                                 |
| 1N4744 A | 15  | 17                    | 14                      | 700                  | 0.25     | 5                               | 11.4     | 304                                | 61                                 |
| 1N4745 A | 16  | 15.5                  | 16                      | 700                  | 0.25     | 5                               | 12.2     | 285                                | 57                                 |
| 1N4746 A | 18  | 14                    | 20                      | 750                  | 0.25     | 5                               | 13.7     | 250                                | 50                                 |
| 1N4747 A | 20  | 12.5                  | 22                      | 750                  | 0.25     | 5                               | 15.2     | 225                                | 45                                 |
| 1N4748 A | 22  | 11.5                  | 23                      | 750                  | 0.25     | 5                               | 16.7     | 205                                | 41                                 |
| 1N4749 A | 24  | 10.5                  | 25                      | 750                  | 0.25     | 5                               | 18.2     | 190                                | 38                                 |
| 1N4750 A | 27  | 9.5                   | 35                      | 750                  | 0.25     | 5                               | 20.6     | 170                                | 34                                 |
| 1N4751 A | 30  | 8.5                   | 40                      | 1000                 | 0.25     | 5                               | 22.8     | 150                                | 30                                 |
| 1N4752 A | 33  | 7.5                   | 45                      | 1000                 | 0.25     | 5                               | 25.1     | 135                                | 27                                 |
| 1N4753 A | 36  | 7.0                   | 50                      | 1000                 | 0.25     | 5                               | 27.4     | 125                                | 25                                 |
| 1N4754 A | 39  | 6.5                   | 60                      | 1000                 | 0.25     | 5                               | 29.7     | 115                                | 23                                 |
| 1N4755 A | 43  | 6.0                   | 70                      | 1500                 | 0.25     | 5                               | 32.7     | 110                                | 22                                 |
| 1N4756 A | 47  | 5.5                   | 80                      | 1500                 | 0.25     | 5                               | 35.8     | 95                                 | 19                                 |
| 1N4757 A | 51  | 5.0                   | 95                      | 1500                 | 0.25     | 5                               | 38.8     | 90                                 | 18                                 |
| 1N4758 A | 56  | 4.5                   | 110                     | 2000                 | 0.25     | 5                               | 42.6     | 80                                 | 16                                 |
| 1N4759 A | 62  | 4.0                   | 125                     | 2000                 | 0.25     | 5                               | 47.1     | 70                                 | 14                                 |
| 1N4760 A | 68  | 3.7                   | 150                     | 2000                 | 0.25     | 5                               | 51.7     | 65                                 | 13                                 |
| 1N4761 A | 75  | 3.3                   | 175                     | 2000                 | 0.25     | 5                               | 56.0     | 60                                 | 12                                 |
| 1N4762 A | 82  | 3.0                   | 200                     | 3000                 | 0.25     | 5                               | 62.2     | 55                                 | 11                                 |
| 1N4763 A | 91  | 2.8                   | 250                     | 3000                 | 0.25     | 5                               | 69.2     | 50                                 | 10                                 |
| 1N4764 A | 100                                       | 2.5                   | 350                     | 3000                 | 0.25     | 5                               | 76.0     | 45                                 | 9.0                                |

Standard Voltage Tolerance is  $\pm 5\%$ .

\*Measured under thermal equilibrium and DC test conditions.

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