



Your TOTAL solutions source!

1N3305 ÷ 1N3350  
1N4549 ÷ 1N455050 WATTS  
ZENER  
DIODESELECTRICAL CHARACTERISTICS (T<sub>J</sub> = 25°C unless otherwise specified, 1.5 V max @ 10 A on all types)

| Type Number | Nominal Zener Voltage V <sub>Z</sub> @ I <sub>ZT</sub> Volts | Test Current (I <sub>ZT</sub> ) mA | Max Zener Impedance                    |                                              | Max DC Zener 75°C Case Temp (I <sub>ZM</sub> ) mA | Reverse Leakage Current |                 |                 | Typical Zener Voltage Temperature Coeff. %/°C |
|-------------|--------------------------------------------------------------|------------------------------------|----------------------------------------|----------------------------------------------|---------------------------------------------------|-------------------------|-----------------|-----------------|-----------------------------------------------|
|             |                                                              |                                    | Z <sub>KT</sub> @ I <sub>ZT</sub> Ohms | Z <sub>ZK</sub> @ I <sub>ZT</sub> = 5mA Ohms |                                                   | I <sub>R</sub> Max      | V <sub>R1</sub> | V <sub>R2</sub> |                                               |
| 1N4549      | 3.9                                                          | 3200                               | 0.16                                   | 400                                          | 11900                                             | 150                     | 0.5             | 0.5             | -.025                                         |
| 1N4550      | 4.3                                                          | 2900                               | 0.16                                   | 500                                          | 10650                                             | 150                     | 0.5             | 0.5             | -.025                                         |
| 1N4551      | 4.7                                                          | 2650                               | 0.12                                   | 600                                          | 9700                                              | 100                     | 1.0             | 1.0             | .010                                          |
| 1N4552      | 5.1                                                          | 2450                               | 0.12                                   | 650                                          | 8900                                              | 20                      | 1.0             | 1.0             | .015                                          |
| 1N4553      | 5.6                                                          | 2250                               | 0.12                                   | 900                                          | 8100                                              | 20                      | 1.0             | 1.0             | .030                                          |
| 1N4554      | 6.2                                                          | 2000                               | 0.14                                   | 1000                                         | 7300                                              | 20                      | 2.0             | 2.0             | .040                                          |
| 1N3305      | 6.8                                                          | 1850                               | 0.2                                    | 70                                           | 6600                                              | 150                     | 4.5             | 4.3             | .040                                          |
| 1N4555      | 6.8                                                          | 1850                               | 0.16                                   | 200                                          | 6650                                              | 10                      | 2.0             | 2.0             | .045                                          |
| 1N3306      | 7.5                                                          | 1700                               | 0.3                                    | 70                                           | 5900                                              | 75                      | 5.0             | 4.7             | .045                                          |
| 1N4556      | 7.5                                                          | 1650                               | 0.24                                   | 100                                          | 6050                                              | 10                      | 3.0             | 3.0             | .053                                          |
| 1N3307      | 8.2                                                          | 1500                               | 0.4                                    | 70                                           | 5200                                              | 50                      | 5.4             | 5.2             | .048                                          |
| 1N3308      | 9.1                                                          | 1370                               | 0.5                                    | 70                                           | 4800                                              | 25                      | 6.1             | 5.7             | .051                                          |
| 1N3309      | 10                                                           | 1200                               | 0.6                                    | 80                                           | 4300                                              | 10                      | 6.7             | 6.3             | .055                                          |
| 1N3310      | 11                                                           | 1100                               | 0.8                                    | 80                                           | 3900                                              | 5                       | 8.4             | 8.0             | .060                                          |
| 1N3311      | 12                                                           | 1000                               | 1.0                                    | 80                                           | 3600                                              | 5                       | 9.1             | 8.6             | .065                                          |
| 1N3312      | 13                                                           | 960                                | 1.1                                    | 80                                           | 3300                                              | 5                       | 9.9             | 9.4             | .065                                          |
| 1N3313      | 14                                                           | 890                                | 1.2                                    | 80                                           | 3000                                              | 5                       | 10.6            | 10.1            | .070                                          |
| 1N3314      | 15                                                           | 830                                | 1.4                                    | 80                                           | 2800                                              | 5                       | 11.4            | 10.8            | .070                                          |
| 1N3315      | 16                                                           | 780                                | 1.6                                    | 80                                           | 2650                                              | 5                       | 12.2            | 11.5            | .070                                          |
| 1N3316      | 17                                                           | 740                                | 1.8                                    | 80                                           | 2500                                              | 5                       | 13.0            | 12.2            | .075                                          |
| 1N3317      | 18                                                           | 700                                | 2.0                                    | 80                                           | 2300                                              | 5                       | 13.7            | 13.0            | .075                                          |
| 1N3318      | 19                                                           | 660                                | 2.2                                    | 80                                           | 2200                                              | 5                       | 14.4            | 13.7            | .075                                          |
| 1N3319      | 20                                                           | 630                                | 2.4                                    | 80                                           | 2100                                              | 5                       | 15.2            | 14.4            | .075                                          |
| 1N3320      | 22                                                           | 570                                | 2.5                                    | 80                                           | 1900                                              | 5                       | 16.7            | 15.8            | .080                                          |
| 1N3321      | 24                                                           | 520                                | 2.6                                    | 80                                           | 1750                                              | 5                       | 18.2            | 17.3            | .080                                          |
| 1N3322      | 25                                                           | 500                                | 2.7                                    | 90                                           | 1550                                              | 5                       | 19.0            | 18.0            | .080                                          |
| 1N3323      | 27                                                           | 460                                | 2.8                                    | 90                                           | 1500                                              | 5                       | 20.6            | 19.4            | .085                                          |
| 1N3324      | 30                                                           | 420                                | 3.0                                    | 90                                           | 1400                                              | 5                       | 22.8            | 21.6            | .085                                          |
| 1N3325      | 33                                                           | 380                                | 3.2                                    | 90                                           | 1300                                              | 5                       | 25.1            | 23.8            | .085                                          |
| 1N3326      | 36                                                           | 350                                | 3.5                                    | 90                                           | 1150                                              | 5                       | 27.4            | 25.9            | .085                                          |
| 1N3327      | 39                                                           | 320                                | 4.0                                    | 90                                           | 1050                                              | 5                       | 29.7            | 28.1            | .090                                          |
| 1N3328      | 43                                                           | 290                                | 4.5                                    | 90                                           | 975                                               | 5                       | 32.7            | 31.0            | .090                                          |
| 1N3329      | 45                                                           | 280                                | 4.5                                    | 100                                          | 930                                               | 5                       | 34.2            | 32.4            | .090                                          |
| 1N3330      | 47                                                           | 270                                | 5.0                                    | 100                                          | 880                                               | 5                       | 35.8            | 33.8            | .090                                          |
| 1N3331      | 50                                                           | 250                                | 5.0                                    | 100                                          | 830                                               | 5                       | 38.0            | 36.0            | .090                                          |
| 1N3332      | 51                                                           | 245                                | 5.2                                    | 100                                          | 810                                               | 5                       | 38.8            | 36.7            | .090                                          |
| 1N3333      | 52                                                           | 240                                | 5.5                                    | 100                                          | 790                                               | 5                       | 39.5            | 37.4            | .090                                          |
| 1N3334      | 56                                                           | 220                                | 6                                      | 110                                          | 740                                               | 5                       | 42.6            | 40.3            | .090                                          |
| 1N3335      | 62                                                           | 200                                | 7                                      | 120                                          | 660                                               | 5                       | 47.1            | 44.6            | .090                                          |
| 1N3336      | 68                                                           | 180                                | 8                                      | 140                                          | 600                                               | 5                       | 51.7            | 49.0            | .090                                          |
| 1N3337      | 75                                                           | 170                                | 9                                      | 150                                          | 540                                               | 5                       | 56.0            | 54.0            | .090                                          |
| 1N3338      | 82                                                           | 150                                | 11                                     | 160                                          | 490                                               | 5                       | 62.2            | 59.0            | .090                                          |
| 1N3339      | 91                                                           | 140                                | 15                                     | 180                                          | 420                                               | 5                       | 69.2            | 65.5            | .090                                          |
| 1N3340      | 100                                                          | 120                                | 20                                     | 200                                          | 400                                               | 5                       | 76.0            | 72.0            | .090                                          |
| 1N3341      | 105                                                          | 120                                | 25                                     | 210                                          | 380                                               | 5                       | 79.8            | 75.6            | .095                                          |
| 1N3342      | 110                                                          | 110                                | 30                                     | 220                                          | 365                                               | 5                       | 83.6            | 79.2            | .095                                          |
| 1N3343      | 120                                                          | 100                                | 40                                     | 240                                          | 335                                               | 5                       | 91.2            | 86.4            | .095                                          |
| 1N3344      | 130                                                          | 95                                 | 50                                     | 275                                          | 310                                               | 5                       | 98.8            | 93.6            | .095                                          |
| 1N3345      | 140                                                          | 90                                 | 60                                     | 325                                          | 290                                               | 5                       | 106.4           | 100.8           | .095                                          |
| 1N3346      | 150                                                          | 85                                 | 75                                     | 400                                          | 270                                               | 5                       | 114.0           | 108.0           | .095                                          |
| 1N3347      | 160                                                          | 80                                 | 80                                     | 450                                          | 250                                               | 5                       | 121.6           | 115.2           | .095                                          |
| 1N3348      | 175                                                          | 70                                 | 85                                     | 500                                          | 230                                               | 5                       | 133.0           | 126.0           | .095                                          |
| 1N3349      | 180                                                          | 68                                 | 90                                     | 525                                          | 220                                               | 5                       | 136.8           | 129.6           | .095                                          |
| 1N3350      | 200                                                          | 65                                 | 100                                    | 600                                          | 200                                               | 5                       | 152.0           | 144.0           | .100                                          |

\*V<sub>R1</sub> ÷ Test Voltage for 5% Tolerance DeviceV<sub>R2</sub> ÷ Test Voltage for 10% Tolerance Device

No Leakage Specified as 20% Tolerance Device

¥ Standard voltage tolerance are +/-5% with B suffix, +/-10% with an A suffix, and +/-20% with no suffix

¥ Standard polarity is anode-to-case

¥ Reverse polarity with cathode-to-case by designating R suffix in part number, e.g. 1N3305RB, etc



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