



¼-WATT (FIG. A)

SILICON ZENER DIODES

| Dickson Number † | Nom Zener Volts* | I _{st} Ma |
|------------------|------------------|--------------------|
| ¼Z6.8D | 6.8 | 37 |
| ¼Z7.5D | 7.5 | 34 |
| ¼Z8.2D | 8.2 | 31 |
| ¼Z9.1D | 9.1 | 28 |
| ¼Z10D | 10 | 25 |
| ¼Z11D | 11 | 23 |
| ¼Z12D | 12 | 21 |
| ¼Z13D | 13 | 19 |
| ¼Z14D | 14 | 18 |
| ¼Z15D | 15 | 17 |
| ¼Z16D | 16 | 15.5 |
| ¼Z17D | 17 | 14.5 |
| ¼Z18D | 18 | 14 |
| ¼Z19D | 19 | 13 |
| ¼Z20D | 20 | 12.5 |
| ¼Z22D | 22 | 11.5 |
| ¼Z24D | 24 | 10.5 |
| ¼Z25D | 25 | 10 |
| ¼Z27D | 27 | 9.5 |
| ¼Z30D | 30 | 8.5 |
| ¼Z33D | 33 | 7.5 |
| ¼Z36D | 36 | 7 |
| ¼Z39D | 39 | 6.5 |
| ¼Z43D | 43 | 6 |
| ¼Z45D | 45 | 5.5 |
| ¼Z47D | 47 | 5.5 |
| ¼Z50D | 50 | 5 |
| ¼Z51D | 51 | 5 |
| ¼Z52D | 52 | 5 |
| ¼Z56D | 56 | 4.5 |
| ¼Z62D | 62 | 4 |
| ¼Z68D | 68 | 3.7 |
| ¼Z75D | 75 | 3.3 |
| ¼Z82D | 82 | 3 |
| ¼Z91D | 91 | 2.8 |
| ¼Z100D | 100 | 2.5 |
| ¼Z105D | 105 | 2.5 |
| ¼Z110D | 110 | 2.3 |
| ¼Z120D | 120 | 2 |
| ¼Z130D | 130 | 1.9 |
| ¼Z140D | 140 | 1.8 |
| ¼Z150D | 150 | 1.7 |
| ¼Z160D | 160 | 1.6 |
| ¼Z175D | 175 | 1.4 |
| ¼Z180D | 180 | 1.4 |
| ¼Z200D | 200 | 1.2 |

Zener diodes cover a range of 6.8 to 200 volts with voltage drop essentially independent of current over a wide range. Effective in regulating DC voltages, low impedance DC level changing, biasless clamping, clipping, limiting and surge protection. All units contain single p-n junctions formed by controlled diffusion at 1300° C of phosphorus into boron-doped silicon. All units hermetically sealed. Junctions are biased in reverse direction in normal usage, cathode positive and anode negative. **Polarity:** Standard polarity, cathode connected to case; 10-watt and 50-watt types have anode connected to stud for negative ground use, and are available with reverse polarity (cathode to stud) by adding suffix **R** to part number. **Tolerance:** Dickson units available in 5, 10 and 20% tolerance. See footnotes for ordering information. **Temperature Range:** -65° C to +175° C, junction and storage.

1-WATT (FIG. A)

1.5-WATT (FIG. C)

10-WATT (FIG. D)

| JEDEC Number † | Nom. Zener Volts* | I _{st} Ma | Dickson Number † | Nom. Zener Volts* | I _{st} Ma | JEDEC Number † | Nom. Zener Volts* | I _{st} Ma |
|----------------|-------------------|--------------------|------------------|-------------------|--------------------|----------------|-------------------|--------------------|
| 1N1767 | 6.8 | 100 | 1.5Z6.8D | 6.8 | 55 | 1N1602 | 6.8 | 300 |
| 1N1768 | 7.5 | 100 | 1.5Z7.5D | 7.5 | 50 | 1N1603 | 8.2 | 250 |
| 1N1769 | 8.2 | 100 | 1.5Z8.2D | 8.2 | 46 | 1N1604 | 10 | 200 |
| 1N1770 | 9.1 | 50 | 1.5Z9.1D | 9.1 | 41 | 1N1605 | 12 | 170 |
| 1N1771 | 10 | 50 | 1.5Z10D | 10 | 37 | 1N1606 | 15 | 140 |
| 1N1772 | 11 | 50 | 1.5Z11D | 11 | 34 | 1N1607 | 18 | 110 |
| 1N1773 | 12 | 50 | 1.5Z12D | 12 | 31 | 1N1608 | 22 | 90 |
| 1N1774 | 13 | 50 | 1.5Z13D | 13 | 29 | 1N1609 | 27 | 70 |
| 1N1775 | 15 | 50 | 1.5Z14D | 14 | 26 | 1N1805 | 6.8 | 1000 |
| 1N1776 | 16 | 50 | 1.5Z15D | 15 | 25 | 1N1806 | 7.5 | 1000 |
| 1N1777 | 18 | 50 | 1.5Z16D | 16 | 23 | 1N1807 | 8.2 | 1000 |
| 1N1778 | 20 | 15 | 1.5Z17D | 17 | 22 | 1N1808 | 9.1 | 500 |
| 1N1779 | 22 | 15 | 1.5Z18D | 18 | 21 | 1N1351 | 10 | 500 |
| 1N1780 | 24 | 15 | 1.5Z19D | 19 | 20 | 1N1352 | 11 | 500 |
| 1N1781 | 27 | 15 | 1.5Z20D | 20 | 19 | 1N1353 | 12 | 500 |
| 1N1782 | 30 | 15 | 1.5Z22D | 22 | 17 | 1N1354 | 13 | 500 |
| 1N1783 | 33 | 15 | 1.5Z24D | 24 | 16 | 1N1355 | 15 | 500 |
| 1N1784 | 36 | 15 | 1.5Z25D | 25 | 15 | 1N1356 | 16 | 500 |
| 1N1785 | 39 | 15 | 1.5Z27D | 27 | 14 | 1N1357 | 18 | 150 |
| 1N1786 | 43 | 15 | 1.5Z30D | 30 | 12 | 1N1358 | 20 | 150 |
| 1N1787 | 47 | 15 | 1.5Z33D | 33 | 11 | 1N1359 | 22 | 150 |
| 1N1788 | 51 | 15 | 1.5Z36D | 36 | 10 | 1N1360 | 24 | 150 |
| 1N1789 | 56 | 15 | 1.5Z39D | 39 | 10 | 1N1361 | 27 | 150 |
| 1N1790 | 62 | 5 | 1.5Z43D | 43 | 9 | 1N1362 | 30 | 150 |
| 1N1791 | 68 | 5 | 1.5Z45D | 45 | 8 | 1N1363 | 33 | 150 |
| 1N1792 | 75 | 5 | 1.5Z47D | 47 | 8 | 1N1364 | 36 | 150 |
| 1N1793 | 82 | 5 | 1.5Z50D | 50 | 7.5 | 1N1365 | 39 | 150 |
| 1N1794 | 91 | 5 | 1.5Z51D | 51 | 7.3 | 1N1366 | 43 | 150 |
| 1N1795 | 100 | 5 | 1.5Z52D | 52 | 7.2 | 1N1367 | 47 | 150 |
| 1N1796 | 110 | 5 | 1.5Z56D | 56 | 6.7 | 1N1368 | 51 | 150 |
| 1N1797 | 120 | 5 | 1.5Z62D | 62 | 6 | 1N1369 | 56 | 150 |
| 1N1798 | 130 | 5 | 1.5Z68D | 68 | 5.5 | 1N1370 | 62 | 50 |
| 1N1799 | 150 | 5 | 1.5Z75D | 75 | 5 | 1N1371 | 68 | 50 |
| 1N1800 | 160 | 5 | 1.5Z82D | 82 | 4.5 | 1N1372 | 75 | 50 |
| 1N1801 | 180 | 5 | 1.5Z91D | 91 | 4.1 | 1N1373 | 82 | 50 |
| 1N1802 | 200 | 5 | 1.5Z100D | 100 | 3.7 | 1N1374 | 91 | 50 |
| | | | 1.5Z105D | 105 | 3.5 | 1N1375 | 100 | 50 |
| | | | 1.5Z110D | 110 | 3.4 | 1N1809 | 110 | 50 |
| | | | 1.5Z120D | 120 | 3.1 | 1N1810 | 120 | 50 |
| | | | 1.5Z130D | 130 | 2.9 | 1N1811 | 130 | 50 |
| | | | 1.5Z140D | 140 | 2.7 | 1N1812 | 150 | 50 |
| | | | 1.5Z150D | 150 | 2.5 | 1N1813 | 160 | 50 |
| | | | 1.5Z160D | 160 | 2.3 | 1N1814 | 180 | 50 |
| | | | 1.5Z175D | 175 | 2.1 | 1N1815 | 200 | 50 |
| | | | 1.5Z180D | 180 | 2.1 | 1N2498 | 10 | 500 |
| | | | 1.5Z200D | 200 | 1.9 | 1N2499 | 11 | 500 |
| | | | | | | 1N2500 | 12 | 500 |
| | | | | | | 1N1816 | 13 | 500 |
| | | | | | | 1N1817 | 15 | 500 |
| | | | | | | 1N1818 | 16 | 500 |
| | | | | | | 1N1819 | 18 | 500 |
| | | | | | | 1N1820 | 20 | 250 |
| | | | | | | 1N1821 | 22 | 250 |
| | | | | | | 1N1822 | 24 | 250 |
| | | | | | | 1N1823 | 27 | 250 |
| | | | | | | 1N1824 | 30 | 250 |
| | | | | | | 1N1825 | 33 | 150 |
| | | | | | | 1N1826 | 36 | 150 |
| | | | | | | 1N1827 | 39 | 150 |
| | | | | | | 1N1828 | 43 | 150 |
| | | | | | | 1N1829 | 47 | 150 |
| | | | | | | 1N1830 | 51 | 150 |
| | | | | | | 1N1831 | 56 | 150 |
| | | | | | | 1N1832 | 62 | 50 |
| | | | | | | 1N1833 | 68 | 50 |
| | | | | | | 1N1834 | 75 | 50 |
| | | | | | | 1N1835 | 82 | 50 |
| | | | | | | 1N1836 | 91 | 50 |
| | | | | | | 1N2008 | 100 | 50 |
| | | | | | | 1N2009 | 110 | 50 |
| | | | | | | 1N2010 | 120 | 50 |
| | | | | | | 1N2011 | 130 | 50 |
| | | | | | | 1N2012 | 150 | 50 |

1-WATT (FIG. B)

| Dickson Number † | Nom Zener Volts* | I _{st} Ma |
|------------------|------------------|--------------------|
| 1Z6.8D | 6.8 | 37 |
| 1Z7.5D | 7.5 | 34 |
| 1Z8.2D | 8.2 | 31 |
| 1Z9.1D | 9.1 | 28 |
| 1Z10D | 10 | 25 |
| 1Z11D | 11 | 23 |
| 1Z12D | 12 | 21 |
| 1Z13D | 13 | 19 |
| 1Z14D | 14 | 18 |
| 1Z15D | 15 | 17 |
| 1Z16D | 16 | 15.5 |
| 1Z17D | 17 | 14.5 |
| 1Z18D | 18 | 14 |
| 1Z19D | 19 | 13 |
| 1Z20D | 20 | 12.5 |
| 1Z22D | 22 | 11.5 |
| 1Z24D | 24 | 10.5 |
| 1Z25D | 25 | 10 |
| 1Z27D | 27 | 9.5 |
| 1Z30D | 30 | 8.5 |
| 1Z33D | 33 | 7.5 |
| 1Z36D | 36 | 7 |
| 1Z39D | 39 | 6.5 |
| 1Z43D | 43 | 6 |
| 1Z45D | 45 | 5.5 |
| 1Z47D | 47 | 5.5 |
| 1Z50D | 50 | 5 |
| 1Z51D | 51 | 5 |
| 1Z52D | 52 | 5 |
| 1Z56D | 56 | 4.5 |
| 1Z62D | 62 | 4 |
| 1Z68D | 68 | 3.7 |
| 1Z75D | 75 | 3.3 |
| 1Z82D | 82 | 3 |
| 1Z91D | 91 | 2.8 |
| 1Z100D | 100 | 2.5 |
| 1Z105D | 105 | 2.5 |
| 1Z110D | 110 | 2.3 |
| 1Z120D | 120 | 2 |
| 1Z130D | 130 | 1.9 |
| 1Z140D | 140 | 1.8 |
| 1Z150D | 150 | 1.7 |
| 1Z160D | 160 | 1.6 |
| 1Z175D | 175 | 1.4 |
| 1Z180D | 180 | 1.4 |
| 1Z200D | 200 | 1.2 |

1-WATT (FIG. A)

| JEDEC Number † | Nom. Zener Volts* | I _{st} Ma |
|----------------|-------------------|--------------------|
| 1N3016 | 6.8 | 37 |
| 1N3017 | 7.5 | 34 |
| 1N3018 | 8.2 | 31 |
| 1N3019 | 9.1 | 28 |
| 1N3020 | 10 | 25 |
| 1N3021 | 11 | 23 |
| 1N3022 | 12 | 21 |
| 1N3023 | 13 | 19 |
| 1N3024 | 15 | 17 |
| 1N3025 | 16 | 15.5 |
| 1N3026 | 18 | 14 |
| 1N3027 | 20 | 12.5 |
| 1N3028 | 22 | 11.5 |
| 1N3029 | 24 | 10.5 |
| 1N3030 | 27 | 9.5 |
| 1N3031 | 30 | 8.5 |
| 1N3032 | 33 | 7.5 |
| 1N3033 | 36 | 7 |
| 1N3034 | 39 | 6.5 |
| 1N3035 | 43 | 6 |
| 1N3036 | 47 | 5.5 |
| 1N3037 | 51 | 5 |
| 1N3038 | 56 | 4.5 |
| 1N3039 | 62 | 4 |
| 1N3040 | 68 | 3.7 |
| 1N3041 | 75 | 3.3 |
| 1N3042 | 82 | 3 |
| 1N3043 | 91 | 2.8 |
| 1N3044 | 100 | 2.5 |
| 1N3045 | 110 | 2.3 |
| 1N3046 | 120 | 2 |
| 1N3047 | 130 | 1.9 |
| 1N3048 | 150 | 1.7 |
| 1N3049 | 160 | 1.6 |
| 1N3050 | 180 | 1.4 |
| 1N3051 | 200 | 1.2 |

3.5-WATT (FIG. D)

| JEDEC Number † | Nom. Zener Volts* | I _{st} Ma |
|----------------|-------------------|--------------------|
| 1N1591 | 6.8 | 100 |
| 1N1592 | 8.2 | 80 |
| 1N1593 | 10 | 70 |
| 1N1594 | 12 | 50 |
| 1N1595 | 15 | 40 |
| 1N1596 | 18 | 35 |
| 1N1597 | 22 | 30 |
| 1N1598 | 27 | 25 |

10-WATT (FIG. D)

| JEDEC Number † | Zener Volts E _s (at I _{st}) | | I _{st} Amps |
|----------------|--------------------------------------------------|------|----------------------|
| | Min. | Max. | |
| 1N2043 | 6.2 | 8 | 1.0 |
| 1N2044 | 7.5 | 10 | 1.0 |
| 1N2045 | 9 | 12 | .5 |
| 1N2046 | 11 | 14.5 | .5 |
| 1N2047 | 13.5 | 18 | .5 |
| 1N2048 | 17 | 21 | .5 |
| 1N2049 | 20 | 27 | .15 |

*Zener voltage at test current (I_{st}) shown. †No suffix indicates 20% tolerance. For 10% tolerance add suffix **A** to number shown (example: 1N2970A); for 5% tolerance, add suffix **B** to number. ‡Number as shown indicates 20% tolerance. For 10% tolerance, add suffix **10** to number (example: ¼Z19D10); for 5% tolerance, add suffix **5** to number. §No suffix denotes 10% tolerance, suffix **A** denotes 5% tolerance.

SEE FOLLOWING PAGE FOR COMPLETE PRICING INFORMATION



DICKSON
ELECTRONICS CORPORATION

Semiconductors

SILICON ZENER DIODES (CONTINUED)

NET PRICES

10-WATT (FIG. D)

| JEDEC Number | Dickson Number 10Z-† | Nom. Zener Volts* | I _z Ma | Net Each, Lots of | | |
|--------------|----------------------|-------------------|-------------------|-------------------|-------|---------|
| | | | | 1-24 | 25-99 | 100-999 |
| 1N2970 | 6.8D | 6.8 | 370 | | | |
| 1N2971 | 7.5D | 7.5 | 335 | | | |
| 1N2972 | 8.2D | 8.2 | 305 | | | |
| 1N2973 | 9.1D | 9.1 | 275 | | | |
| 1N2974 | 10D | 10 | 250 | | | |
| 1N2975 | 11D | 11 | 230 | | | |
| 1N2976 | 12D | 12 | 210 | | | |
| 1N2977 | 13D | 13 | 190 | | | |
| 1N2978 | 14D | 14 | 180 | | | |
| 1N2979 | 15D | 15 | 170 | | | |
| 1N2980 | 16D | 16 | 155 | | | |
| 1N2981 | 17D | 17 | 145 | | | |
| 1N2982 | 18D | 18 | 140 | | | |
| 1N2983 | 19D | 19 | 130 | | | |
| 1N2984 | 20D | 20 | 125 | | | |
| 1N2985 | 22D | 22 | 115 | | | |
| 1N2986 | 24D | 24 | 105 | | | |
| 1N2987 | 25D | 25 | 100 | | | |
| 1N2988 | 27D | 27 | 95 | | | |
| 1N2989 | 30D | 30 | 85 | | | |
| 1N2990 | 33D | 33 | 75 | | | |
| 1N2991 | 36D | 36 | 70 | | | |
| 1N2992 | 39D | 39 | 65 | | | |
| 1N2993 | 43D | 43 | 60 | | | |
| 1N2994 | 45D | 45 | 55 | | | |
| 1N2995 | 47D | 47 | 55 | | | |
| 1N2996 | 50D | 50 | 50 | | | |
| 1N2997 | 51D | 51 | 50 | | | |
| 1N2998 | 52D | 52 | 50 | | | |
| 1N2999 | 56D | 56 | 45 | | | |
| 1N3000 | 62D | 62 | 40 | | | |
| 1N3001 | 68D | 68 | 37 | | | |
| 1N3002 | 75D | 75 | 33 | | | |
| 1N3003 | 82D | 82 | 30 | | | |
| 1N3004 | 91D | 91 | 28 | | | |
| 1N3005 | 100D | 100 | 25 | | | |
| 1N3006 | 105D | 105 | 25 | | | |
| 1N3007 | 110D | 110 | 23 | | | |
| 1N3008 | 120D | 120 | 20 | | | |
| 1N3009 | 130D | 130 | 19 | | | |
| 1N3010 | 140D | 140 | 18 | | | |
| 1N3011 | 150D | 150 | 17 | | | |
| 1N3012 | 160D | 160 | 16 | | | |
| 1N3013 | 175D | 175 | 14 | | | |
| 1N3014 | 180D | 180 | 14 | | | |
| 1N3015 | 200D | 200 | 12 | | | |

50-WATT (FIG. E)

| JEDEC Number | Dickson Number 50SZ-† | Nom. Zener Volts* | I _z Ma | Net Each, Lots of | | |
|--------------|-----------------------|-------------------|-------------------|-------------------|-------|---------|
| | | | | 1-24 | 25-99 | 100-999 |
| 1N3305 | 6.8D | 6.8 | 1850 | | | |
| 1N3306 | 7.5D | 7.5 | 1700 | | | |
| 1N3307 | 8.2D | 8.2 | 1500 | | | |
| 1N3308 | 9.1D | 9.1 | 1370 | | | |
| 1N3309 | 10D | 10 | 1200 | | | |
| 1N3310 | 11D | 11 | 1100 | | | |
| 1N3311 | 12D | 12 | 1000 | | | |
| 1N3312 | 13D | 13 | 960 | | | |
| 1N3313 | 14D | 14 | 890 | | | |
| 1N3314 | 15D | 15 | 830 | | | |
| 1N3315 | 16D | 16 | 780 | | | |
| 1N3316 | 17D | 17 | 740 | | | |
| 1N3317 | 18D | 18 | 700 | | | |
| 1N3318 | 19D | 19 | 660 | | | |
| 1N3319 | 20D | 20 | 630 | | | |
| 1N3320 | 22D | 22 | 570 | | | |
| 1N3321 | 24D | 24 | 520 | | | |
| 1N3322 | 25D | 25 | 500 | | | |
| 1N3323 | 27D | 27 | 460 | | | |
| 1N3324 | 30D | 30 | 420 | | | |
| 1N3325 | 33D | 33 | 380 | | | |
| 1N3326 | 36D | 36 | 350 | | | |
| 1N3327 | 39D | 39 | 320 | | | |
| 1N3328 | 43D | 43 | 290 | | | |
| 1N3329 | 45D | 45 | 280 | | | |
| 1N3330 | 47D | 47 | 270 | | | |
| 1N3331 | 50D | 50 | 250 | | | |
| 1N3332 | 51D | 51 | 245 | | | |
| 1N3333 | 52D | 52 | 240 | | | |
| 1N3334 | 56D | 56 | 220 | | | |
| 1N3335 | 62D | 62 | 200 | | | |
| 1N3336 | 68D | 68 | 180 | | | |
| 1N3337 | 75D | 75 | 170 | | | |
| 1N3338 | 82D | 82 | 150 | | | |
| 1N3339 | 91D | 91 | 140 | | | |
| 1N3340 | 100D | 100 | 120 | | | |
| 1N3341 | 105D | 105 | 120 | | | |
| 1N3342 | 110D | 110 | 110 | | | |
| 1N3343 | 120D | 120 | 100 | | | |
| 1N3344 | 130D | 130 | 95 | | | |
| 1N3345 | 140D | 140 | 90 | | | |
| 1N3346 | 150D | 150 | 85 | | | |
| 1N3347 | 160D | 160 | 80 | | | |
| 1N3348 | 175D | 175 | 70 | | | |
| 1N3349 | 180D | 180 | 68 | | | |
| 1N3350 | 200D | 200 | 65 | | | |

JEDEC or Dickson Number

| | 1-24 | 25-99 | 100-999 |
|------------------------|--------|--------|---------|
| 1N1351 thru 1N1375 | \$4.95 | \$4.70 | \$3.85 |
| 1N1351A thru 1N1375A | 5.95 | 4.95 | 4.15 |
| 1N1591 thru 1N1598 | 3.50 | 3.50 | 2.85 |
| 1N1591A thru 1N1598A | 4.20 | 4.20 | 3.65 |
| 1N1602 thru 1N1609 | 6.15 | 6.15 | 4.90 |
| 1N1602A thru 1N1609A | 7.70 | 7.70 | 6.40 |
| 1N1767 thru 1N1781 | 2.65 | 2.65 | 2.10 |
| 1N1767A thru 1N1781A | 3.00 | 3.00 | 2.35 |
| 1N1782 thru 1N1799 | 3.00 | 3.00 | 2.30 |
| 1N1782A thru 1N1799A | 3.95 | 3.95 | 2.95 |
| 1N1800 thru 1N1802 | 4.85 | 4.85 | 3.85 |
| 1N1800A thru 1N1802A | 7.15 | 7.15 | 5.85 |
| 1N1805 thru 1N1812 | 5.10 | 4.85 | 3.90 |
| 1N1805A thru 1N1812A | 6.05 | 5.60 | 4.20 |
| 1N1813 thru 1N1815 | 7.45 | 6.85 | 5.15 |
| 1N1813A thru 1N1815A | 12.20 | 11.90 | 10.05 |
| 1N1816 thru 1N1836 | 5.60 | 5.10 | 4.50 |
| 1N1816A thru 1N1836A | 7.05 | 6.50 | 5.65 |
| 1N2008 thru 1N2012 | 5.05 | 4.70 | 3.90 |
| 1N2008A thru 1N2012A | 5.65 | 5.10 | 4.25 |
| 1N2043 thru 1N2049 | 5.20 | 5.20 | 4.40 |
| 1N2043A thru 1N2049A | 7.15 | 6.55 | 5.70 |
| 1N2498 thru 1N2500 | 5.10 | 5.10 | 3.90 |
| 1N2498A thru 1N2500A | 6.10 | 6.10 | 4.25 |
| 1N2970 thru 1N3011 | 5.15 | 4.70 | 4.10 |
| 1N2970A thru 1N3011A | 5.70 | 5.05 | 4.40 |
| 1N2970B thru 1N3011B | 7.10 | 6.30 | 5.50 |
| 1N3012 thru 1N3015 | 5.65 | 5.15 | 4.50 |
| 1N3012A thru 1N3015A | 8.45 | 7.75 | 6.75 |
| 1N3012B thru 1N3015B | 13.00 | 11.90 | 10.35 |
| 1N3016 thru 1N3044 | 2.60 | 2.45 | 2.15 |
| 1N3016A thru 1N3044A | 3.00 | 2.75 | 2.40 |
| 1N3016B thru 1N3044B | 3.55 | 3.20 | 2.80 |
| 1N3045 thru 1N3051 | 2.75 | 2.55 | 2.20 |
| 1N3045A thru 1N3051A | 3.25 | 2.80 | 2.45 |
| 1N3045B thru 1N3051B | 4.35 | 4.05 | 3.50 |
| 1N3305 thru 1N3331 | 6.75 | 5.25 | 4.55 |
| 1N3332 thru 1N3340 | 5.40 | 5.25 | 4.55 |
| 1N3305A thru 1N3340A | 7.10 | 6.90 | 6.00 |
| 1N3305B thru 1N3340B | 10.15 | 9.95 | 8.65 |
| 1N3341 thru 1N3350 | 6.05 | 5.85 | 5.10 |
| 1N3341A thru 1N3350A | 9.50 | 9.25 | 8.50 |
| 1N341B thru 1N350B | 15.00 | 14.50 | 12.15 |
| ½ Z6.8D thru 150D | 2.60 | 2.45 | 2.15 |
| ½ Z6.8D10 thru 150D10 | 3.00 | 2.75 | 2.40 |
| ½ Z6.8D5 thru 150D5 | 3.55 | 3.20 | 2.80 |
| ½ Z160D thru 200D | 2.75 | 2.55 | 2.20 |
| ½ Z160D10 thru 200D10 | 3.25 | 2.80 | 2.45 |
| ½ Z160D5 thru 200D5 | 4.35 | 4.05 | 3.50 |
| 1Z6.8D thru 33D | 2.90 | 2.65 | 2.30 |
| 1Z6.8D10 thru 33D10 | 3.00 | 2.80 | 2.45 |
| 1Z6.8D5 thru 33D5 | 3.70 | 3.40 | 2.95 |
| 1Z36D thru 150D | 3.25 | 3.00 | 2.60 |
| 1Z36D10 thru 150D10 | 3.55 | 3.25 | 2.80 |
| 1Z36D5 thru 150D5 | 5.25 | 4.85 | 4.20 |
| 1Z160D thru 200D | 4.25 | 3.90 | 3.40 |
| 1Z160D10 thru 200D10 | 5.55 | 5.10 | 4.45 |
| 1Z160D5 thru 200D5 | 8.20 | 7.55 | 6.55 |
| 1.5Z6.8D thru 150D | 3.50 | 3.20 | 2.80 |
| 1.5Z6.8D10 thru 150D10 | 5.00 | 4.60 | 4.00 |
| 1.5Z6.8D5 thru 150D5 | 6.55 | 6.00 | 5.25 |
| 1.5Z160D thru 200D | 4.40 | 4.10 | 3.55 |
| 1.5Z160D10 thru 200D10 | 6.65 | 6.10 | 5.30 |
| 1.5Z160D5 thru 200D5 | 8.25 | 7.60 | 6.60 |
| 10Z6.8D thru 150D | 5.15 | 4.70 | 4.10 |
| 10Z6.8D10 thru 150D10 | 5.70 | 5.05 | 4.40 |
| 10Z6.8D5 thru 150D5 | 7.10 | 6.30 | 5.50 |
| 10Z160D thru 200D | 5.65 | 5.15 | 4.50 |
| 10Z160D10 thru 200D10 | 8.45 | 7.75 | 6.75 |
| 10Z160D5 thru 200D5 | 13.00 | 11.90 | 10.35 |
| 50Z26.8D thru 50D | 5.75 | 5.25 | 4.55 |
| 50Z26.8D10 thru 50D10 | 7.10 | 6.90 | 6.00 |
| 50Z26.8D5 thru 50D5 | 10.15 | 9.95 | 8.65 |
| 50Z251D thru 100D | 5.40 | 5.25 | 4.55 |
| 50Z251D10 thru 100D10 | 7.10 | 6.90 | 6.00 |
| 50Z251D5 thru 100D5 | 10.15 | 9.95 | 8.65 |
| 50Z5105D thru 200D | 6.05 | 5.85 | 5.10 |
| 50Z5105D10 thru 200D10 | 9.50 | 9.25 | 8.50 |
| 50Z5105D5 thru 200D5 | 15.00 | 14.50 | 13.50 |

*At I_z shown. †No suffix indicates 20% tolerance. Add suffix A for 10% tolerance; suffix B for 5%. ‡No suffix indicates 20% tolerance. Add suffix 10 for 10% tolerance; 5 for 5% tolerance.

TEMPERATURE-COMPENSATED ZENER REFERENCE DIODES

Diffused junction, temperature compensated Zener diodes intended for industrial and military applications. Hermetically sealed and designed to meet or exceed military requirements mechanically and environmentally. External surfaces are corrosion resistant.

9.0-VOLT (FIG. F)

Rated 9.0 volts ±5% at 7.5 ma. Max. Impedance, 20 ohms.

| JEDEC Number* | Volt./Temp. Coefficient %/° C | Net Each, Lots of | | |
|---------------|-------------------------------|-------------------|---------|---------|
| | | 1-24 | 25-99 | 100-999 |
| 1N935 | .01 | \$ 3.45 | \$ 3.00 | \$ 2.60 |
| 1N935A | .01 | 3.80 | 3.35 | 2.90 |
| 1N935B | .01 | 4.40 | 3.90 | 3.35 |
| 1N936 | .005 | 3.80 | 3.40 | 3.00 |
| 1N936A | .005 | 4.45 | 4.20 | 3.65 |
| 1N936B | .005 | 5.25 | 4.85 | 4.20 |
| 1N937 | .002 | 6.55 | 6.05 | 5.25 |
| 1N937A | .002 | 7.20 | 6.55 | 5.70 |
| 1N937B | .002 | 8.00 | 7.35 | 6.40 |
| 1N938 | .001 | 7.60 | 7.00 | 6.10 |
| 1N938A | .001 | 8.60 | 7.90 | 6.85 |
| 1N938B | .001 | 11.60 | 10.65 | 9.25 |
| 1N939 | .0005 | 17.60 | 16.20 | 14.10 |
| 1N939A | .0005 | 24.25 | 22.30 | 19.40 |
| 1N939B | .0005 | 27.00 | 24.85 | 21.60 |

9.3-VOLT (FIG. A)

Rated 9.3 volts ±5% at 10 ma. Max. Impedance, 15 ohms.

| JEDEC Number* | Volt./Temp. Coefficient %/° C | Net Each, Lots of | | |
|---------------|-------------------------------|-------------------|---------|---------|
| | | 1-24 | 25-99 | 100-999 |
| 1N2620 | .01 | \$ 3.80 | \$ 3.55 | \$ 3.05 |
| 1N2620A | .01 | 4.05 | 3.75 | 3.25 |
| 1N2620B | .01 | 4.55 | 4.20 | 3.65 |
| 1N2621 | .005 | 4.20 | 3.95 | 3.45 |
| 1N2621A | .005 | 5.20 | 4.80 | 4.15 |
| 1N2621B | .005 | 6.30 | 5.85 | 5.05 |
| 1N2622 | .002 | 7.15 | 6.55 | 5.70 |
| 1N2622A | .002 | 7.65 | 7.05 | 6.10 |
| 1N2622B | .002 | 8.75 | 8.05 | 7.00 |
| 1N2623 | .001 | 8.40 | 7.60 | 6.60 |
| 1N2623A | .001 | 9.45 | 8.70 | 7.55 |
| 1N2623B | .001 | 12.70 | 11.65 | 10.15 |
| 1N2624 | .0005 | 20.70 | 19.00 | 16.55 |
| 1N2624A | .0005 | 27.05 | 24.90 | 21.65 |
| 1N2624B | .0005 | 36.20 | 33.30 | 28.95 |

11.7-VOLT (FIG. F)

Rated 11.7 volts ±5% at 7.5 ma. Max. Impedance, 30 ohms.

| JEDEC Number* | Volt./Temp. Coefficient %/° C | Net Each, Lots of | | |
|---------------|-------------------------------|-------------------|---------|---------|
| | | 1-24 | 25-99 | 100-999 |
| 1N941 | .01 | \$ 4.55 | \$ 4.20 | \$ 3.65 |
| 1N941A | .01 | 4.95 | 4.55 | 3.95 |
| 1N941B | .01 | 5.65 | | |