

50 WATT, Metal (Case DO-5, 1/4-28)

| JEDEC TYPE NUMBER† | NOMINAL ZENER VOLTAGE V_Z VOLTS | TEST CURRENT I_{ZT} mA | MAXIMUM ZENER IMPEDANCE | | | MAXIMUM REVERSE LEAKAGE CURRENT | | | MAXIMUM DC ZENER CURRENT I_{ZM} mA | TYPICAL TEMPERATURE COEFFICIENT @ I_{ZT} %/°C |
|--------------------|-----------------------------------|--------------------------|--------------------------|--------------------------|-----------------------------------|---------------------------------|------------------|---------------------|--------------------------------------|---|
| | | | Z_{ZT} @ I_{ZT} Ohms | Z_{ZK} @ I_{ZK} Ohms | I_R @ V_{R1}^* @ 25°C μA | V_{R2}^{**} VOLTS | V_{R1}^* VOLTS | V_{R2}^{**} VOLTS | | |
| 1N3305B | 6.8 | 1850 | 0.2 | 150 | 5 | 300 | 4.5 | 4.3 | 6600 | .040 |
| 1N3306B | 7.5 | 1700 | 0.3 | 100 | 5 | 125 | 5.0 | 4.7 | 5900 | .045 |
| 1N3307B | 8.2 | 1500 | 0.4 | 70 | 5 | 50 | 5.4 | 5.2 | 5200 | .048 |
| 1N3308B | 9.1 | 1370 | 0.5 | 70 | 5 | 25 | 6.1 | 5.7 | 4800 | .051 |
| 1N3309B | 10 | 1200 | 0.6 | 80 | 5 | 10 | 6.7 | 6.3 | 4300 | .055 |
| 1N3310B | 11 | 1100 | 0.8 | 80 | 5 | 5 | 8.4 | 8.0 | 3900 | .060 |
| 1N3311B | 12 | 1000 | 1.0 | 80 | 5 | 5 | 9.1 | 8.6 | 3600 | .065 |
| 1N3312B | 13 | 960 | 1.1 | 80 | 5 | 5 | 9.9 | 9.4 | 3300 | .065 |
| 1N3313B | 14 | 890 | 1.2 | 80 | 5 | 5 | 10.6 | 10.1 | 3000 | .070 |
| 1N3314B | 15 | 830 | 1.4 | 80 | 5 | 5 | 11.4 | 10.8 | 2800 | .070 |
| 1N3315B | 16 | 780 | 1.6 | 80 | 5 | 5 | 12.2 | 11.5 | 2650 | .070 |
| 1N3316B | 17 | 740 | 1.8 | 80 | 5 | 5 | 13.0 | 12.2 | 2500 | .075 |
| 1N3317B | 18 | 700 | 2.0 | 80 | 5 | 5 | 13.7 | 13.0 | 2300 | .075 |
| 1N3318B | 19 | 660 | 2.2 | 80 | 5 | 5 | 14.4 | 13.7 | 2200 | .075 |
| 1N3319B | 20 | 630 | 2.4 | 80 | 5 | 5 | 15.2 | 14.4 | 2100 | .075 |
| 1N3320B | 22 | 570 | 2.5 | 80 | 5 | 5 | 16.7 | 15.8 | 1900 | .080 |
| 1N3321B | 24 | 520 | 2.6 | 80 | 5 | 5 | 18.2 | 17.3 | 1750 | .080 |
| 1N3322B | 25 | 500 | 2.7 | 90 | 5 | 5 | 19.0 | 18.0 | 1550 | .080 |
| 1N3323B | 27 | 460 | 2.8 | 90 | 5 | 5 | 20.6 | 19.4 | 1500 | .085 |
| 1N3324B | 30 | 420 | 3.0 | 90 | 5 | 5 | 22.8 | 21.6 | 1400 | .085 |
| 1N3325B | 33 | 380 | 3.2 | 90 | 5 | 5 | 25.1 | 23.8 | 1300 | .085 |
| 1N3326B | 36 | 350 | 3.5 | 90 | 5 | 5 | 27.4 | 25.9 | 1150 | .085 |
| 1N3327B | 39 | 320 | 4.0 | 90 | 5 | 5 | 29.7 | 28.1 | 1050 | .090 |
| 1N3328B | 43 | 290 | 4.5 | 90 | 5 | 5 | 32.7 | 31.0 | 975 | .090 |
| 1N3329B | 45 | 280 | 4.5 | 100 | 5 | 5 | 34.2 | 32.4 | 930 | .090 |
| 1N3330B | 47 | 270 | 5.0 | 100 | 5 | 5 | 35.8 | 33.8 | 880 | .090 |
| 1N3331B | 50 | 250 | 5.0 | 100 | 5 | 5 | 38.0 | 36.0 | 830 | .090 |
| 1N3332B | 51 | 245 | 5.2 | 100 | 5 | 5 | 38.8 | 36.7 | 810 | .090 |
| 1N3333B | 52 | 240 | 5.5 | 100 | 5 | 5 | 39.5 | 37.4 | 790 | .090 |
| 1N3334B | 56 | 220 | 6 | 110 | 5 | 5 | 42.6 | 40.3 | 740 | .090 |
| 1N3335B | 62 | 200 | 7 | 120 | 5 | 5 | 47.1 | 44.6 | 660 | .090 |
| 1N3336B | 68 | 180 | 8 | 140 | 5 | 5 | 51.7 | 49.0 | 600 | .090 |
| 1N3337B | 75 | 170 | 9 | 150 | 5 | 5 | 56.0 | 54.0 | 540 | .090 |
| 1N3338B | 82 | 150 | 11 | 160 | 5 | 5 | 62.2 | 59.0 | 490 | .090 |
| 1N3339B | 91 | 140 | 15 | 180 | 5 | 5 | 69.2 | 65.5 | 420 | .090 |
| 1N3340B | 100 | 120 | 20 | 200 | 5 | 5 | 76.0 | 72.0 | 400 | .090 |
| 1N3341B | 105 | 120 | 25 | 210 | 5 | 5 | 79.8 | 75.6 | 380 | .095 |
| 1N3342B | 110 | 110 | 30 | 220 | 5 | 5 | 83.6 | 79.2 | 365 | .095 |
| 1N3343B | 120 | 100 | 40 | 240 | 5 | 5 | 91.2 | 86.4 | 335 | .095 |
| 1N3344B | 130 | 95 | 50 | 275 | 5 | 5 | 98.8 | 93.6 | 310 | .095 |
| 1N3345B | 140 | 90 | 60 | 325 | 5 | 5 | 106.4 | 100.8 | 290 | .095 |
| 1N3346B | 150 | 85 | 75 | 400 | 5 | 5 | 114.0 | 108.0 | 270 | .095 |
| 1N3347B | 160 | 80 | 80 | 450 | 5 | 5 | 121.6 | 115.2 | 250 | .095 |
| 1N3348B | 175 | 70 | 85 | 500 | 5 | 5 | 133.0 | 126.0 | 230 | .095 |
| 1N3349B | 180 | 68 | 90 | 525 | 5 | 5 | 136.8 | 129.6 | 220 | .095 |
| 1N3350B | 200 | 65 | 100 | 600 | 5 | 5 | 152.0 | 144.0 | 200 | .100 |

V_Z @ $T_c = 30^\circ C$

$V_F = 1.5V$ max @ 10 A on all types.

† Non Suffix $V_Z = \pm 20\%$

A Suffix $V_Z = \pm 10\%$

B Suffix $V_Z = \pm 5\%$

Standard Polarity – Anode to Case

* Available in JAN and JANTX per MIL-S-1900/358

* V_{R1} -- Test Voltage for 5% Tolerance Device, Suffix B

** V_{R2} -- Test Voltage for 10% Tolerance Device, Suffix A

No Leakage Specified for 20% Tolerance Device, Non Suffix

Derating Factor Linear above $75^\circ C$: 500 mW/°C

