

1N52 SERIES ZENER DIODES

1N52 系列稳压二极管

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1N5221B Through 1N5272B ELECTRICAL CHARACTERISTICS 电性参数

($T_A=25^\circ\text{C}$) unless otherwise noted. Based on dc measurements at thermal equilibrium; lead length=3/8"; thermal resistance of heat sink=30°C/W $V_{Fmax}=1.1\text{V}$ @ $I_F=200\text{mA}$ for all types ($T_A=25^\circ\text{C}$ 所有型号 $V_{Fmax}=1.1\text{V}$ @ $I_F=200\text{mA}$ 。其它特别说明除外。)

| 型号 TYPE | 稳压值 Nominal Zener Voltage $V_Z@I_{ZT}$ Volts | 测试电流 Test Current I_{ZT} mA | 最大动态阻抗 Max Zener Impedance A and B Suffix only | | 漏电流 Max Reverse Leakage Current | | 温度系数 Max Zener Voltage Temperature Cof (A and B suffix only) $V_Z(\%/^\circ\text{C})$ | 外型尺寸 Package Dimensions |
|------------|---|--|--|-------------------------------------|------------------------------------|---------------------|---|--|
| | | | $Z_{ZT}@I_{ZT}$ Ohms | $Z_{ZK}@I_{ZK}$ = 0.25mA Ohms | I_R μA | V_R Volts B | | |
| 1N5221B | 2.4 | 20 | 30 | 1200 | 100 | | -0.085 |  <p style="text-align: center;">DO-35 (mm)</p> |
| 1N5222B | 2.5 | | 30 | 1250 | 100 | | -0.085 | |
| 1N5223B | 2.7 | | 30 | 1300 | 75 | 1.0 | -0.08 | |
| 1N5224B | 2.8 | | 30 | 1400 | 75 | | -0.08 | |
| 1N5225B | 3.0 | | 29 | 1600 | 50 | | -0.075 | |
| 1N5226B | 3.3 | 20 | 28 | 1600 | 25 | 1.0 | -0.07 | |
| 1N5227B | 3.6 | | 24 | 1700 | 15 | 1.0 | -0.065 | |
| 1N5228B | 3.9 | | 23 | 1900 | 10 | 1.0 | -0.06 | |
| 1N5229B | 4.3 | | 22 | 2000 | 5.0 | 1.0 | ± 0.055 | |
| 1N5230B | 4.7 | | 19 | 1900 | 5.0 | 2.0 | ± 0.03 | |
| 1N5231B | 5.1 | 20 | 17 | 1600 | 5.0 | 2.0 | ± 0.03 | |
| 1N5232B | 5.6 | | 11 | 1600 | 5.0 | 3.0 | +0.038 | |
| 1N5233B | 6.0 | | 7.0 | 1600 | 5.0 | 3.5 | +0.038 | |
| 1N5234B | 6.2 | | 7.0 | 1000 | 5.0 | 4.0 | +0.045 | |
| 1N5235B | 6.8 | | 5.0 | 750 | 3.0 | 5.0 | +0.05 | |
| 1N5236B | 7.5 | 20 | 6.0 | 500 | | 6.0 | +0.058 | |
| 1N5237B | 8.2 | | 8.0 | 500 | | 6.5 | +0.062 | |
| 1N5238B | 8.7 | | 8.0 | 600 | 3.0 | 6.5 | +0.065 | |
| 1N5239B | 9.1 | | 10 | 600 | | 7.0 | +0.068 | |
| 1N5240B | 10 | | 17 | 600 | | 8.0 | +0.075 | |
| 1N5241B | 11 | 20 | 22 | | 2.0 | 8.4 | +0.076 | |
| 1N5242B | 12 | 20 | 30 | | 1.0 | 9.1 | +0.077 | |
| 1N5243B | 13 | 9.5 | 13 | 600 | 0.5 | 9.9 | +0.079 | |
| 1N5244B | 14 | 9.0 | 15 | | 0.1 | 10 | +0.082 | |
| 1N5245B | 15 | 8.5 | 16 | | 0.1 | 11 | +0.082 | |
| 1N5246B | 16 | 7.8 | 17 | | | 12 | +0.083 | |
| 1N5247B | 17 | 7.4 | 19 | | | 13 | +0.084 | |
| 1N5248B | 18 | 7.0 | 21 | 600 | 0.1 | 14 | +0.085 | |
| 1N5249B | 19 | 6.6 | 23 | | | 14 | +0.086 | |
| 1N5250B | 20 | 6.2 | 25 | | | 15 | +0.086 | |
| 1N5251B | 22 | 5.6 | 29 | | | 17 | +0.087 | |
| 1N5252B | 24 | 5.2 | 33 | | | 18 | +0.088 | |
| 1N5253B | 25 | 5.0 | 35 | 600 | 0.1 | 19 | +0.089 | |
| 1N5254B | 27 | 4.6 | 41 | | | 21 | +0.090 | |
| 1N5255B | 28 | 4.5 | 44 | | | 21 | +0.091 | |

NOTE: The V_Z value shown is the center value with tolerance designations

as follows:

suffix B: $V_Z \pm 5\%$
suffix C: $V_Z \pm 2\%$
suffix D: $V_Z \pm 1\%$

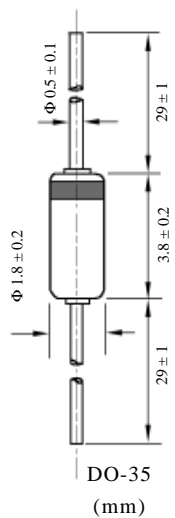
注: V_Z 为稳压中心值, 其中 B 档 V_Z 容差 $\pm 5\%$
C 档 V_Z 容差 $\pm 2\%$
D 档 V_Z 容差 $\pm 1\%$

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| 型号 TYPE | 稳压值 Nominal Zener Voltage V _Z @I _{ZT} Volts | 测试电流 Test Current I _{ZT} mA | 最大动态阻抗 Max Zener Impedance A and B Suffix only | | 漏电流 Max Reverse Leakage Current | | 温度系数 Max Zener Voltage Temperature Coff (A and B suffix only) VZ(%/°C) | 外型尺寸 Package Dimensions |
|------------|--|--|--|--|---------------------------------------|------------------------------|--|--|
| | | | Z _{ZT} @I _{ZT} Ohms | Z _{ZK} @I _{ZK} = 0.25mA Ohms | I _R μA | V _R Volts B | | |
| 1N5256B | 30 | 4.2 | 49 | 600 | 0.1 | 23 | +0.091 |  |
| 1N5257B | 33 | 3.8 | 58 | 700 | | 25 | +0.092 | |
| 1N5258B | 36 | 3.4 | 70 | 700 | | 27 | +0.093 | |
| 1N5259B | 39 | 3.2 | 80 | 800 | | 30 | +0.094 | |
| 1N5260B | 43 | 3.0 | 93 | 900 | | 33 | +0.095 | |
| 1N5261B | 47 | 2.7 | 105 | 1000 | 0.1 | 36 | +0.095 | |
| 1N5262B | 51 | 2.5 | 125 | 1100 | | 39 | +0.096 | |
| 1N5263B | 56 | 2.2 | 150 | 1300 | | 43 | +0.096 | |
| 1N5264B | 60 | 2.1 | 170 | 1400 | | 46 | +0.097 | |
| 1N5265B | 62 | 2.0 | 185 | 1400 | | 47 | +0.097 | |
| 1N5266B | 68 | 1.8 | 230 | 1600 | 0.1 | 52 | +0.097 | |
| 1N5267B | 75 | 1.7 | 270 | 1700 | | 56 | +0.098 | |
| 1N5268B | 82 | 1.5 | 330 | 2000 | | 62 | +0.098 | |
| 1N5269B | 87 | 1.4 | 370 | 2200 | | 68 | +0.099 | |
| 1N5270B | 91 | 1.4 | 400 | 2300 | | 69 | +0.099 | |
| 1N5271B | 100 | 1.3 | 500 | 2600 | 0.1 | 76 | +0.110 | |
| 1N5272B | 110 | 1.1 | 750 | 3000 | | 84 | +0.110 | |

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 suffix B: V_Z ± 5%
 suffix C: V_Z ± 2%
 suffix D: V_Z ± 1%

 注: V_Z 为稳压中心值, 其中 B 档 V_Z 容差 ± 5%
 C 档 V_Z 容差 ± 2%
 D 档 V_Z 容差 ± 1%