

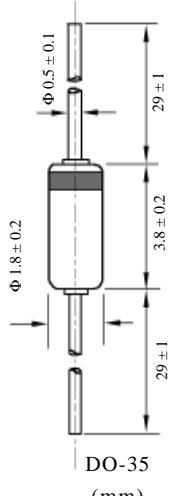
## 1N52 SERIES ZENER DIODES

### 1N52 系列稳压二极管

### 1N52 SERIES ZENER DIODES

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<br>TYPE | 稳压值<br>Nominal Zener Voltage<br>$V_Z@I_{ZT}$<br>Volts | 测试电流<br>Test Current<br>$I_{ZT}$<br>mA | 最大动态阻抗<br>Max Zener Impedance<br>A and B Suffix only |                                     | 漏电流<br>Max Reverse Leakage Current |                     | 温度系数<br>Max Zener Voltage<br>Temperature Cof<br>(A and B suffix only)<br>$V_Z(\%/^{\circ}\text{C})$ | 外型尺寸<br>Package<br>Dimensions  |
|------------|---|--|--|-------------------------------------|------------------------------------|---------------------|---|--|
|            |   |  | $Z_{ZT}@I_{ZT}$<br>Ohms                              | $Z_{ZK}@I_{ZK}$<br>= 0.25mA<br>Ohms | $I_R$<br>$\mu\text{A}$             | $V_R$<br>Volts<br>B |   |  |
| 1N5221B    | 2.4   | 20                                     | 30   | 1200                                | 100                                |                     | -0.085  |  <p style="text-align: center;">DO-35<br/>(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                 | $\pm 0.055$   |  |
| 1N5230B    | 4.7   |  | 19   | 1900                                | 5.0                                | 2.0                 | $\pm 0.03$  |  |
| 1N5231B    | 5.1   | 20                                     | 17   | 1600                                | 5.0                                | 2.0                 | $\pm 0.03$  |  |
| 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:  $V_Z \pm 1\%$

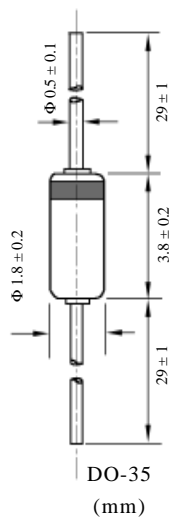
注:  $V_Z$  为稳压中心值, 其中 B 档  $V_Z$  容差  $\pm 5\%$   
C 档  $V_Z$  容差  $\pm 2\%$   
D 档  $V_Z$  容差  $\pm 1\%$

## 1N52 系列稳压二极管

### 1N52 SERIES ZENER DIODES

1N5221B Through 1N5272B ELECTRICAL CHARACTERISTICS 电性参数

 (T<sub>A</sub>=25°C) unless otherwise noted. Based on dc measurements at thermal equilibrium; lead length=3/8"; thermal resistance of heat sink=30°C/W V<sub>Fmax</sub>=1.1V @ I<sub>F</sub>=200mA for all types (T<sub>A</sub>=25°C 所有型号 V<sub>Fmax</sub>=1.1V @ I<sub>F</sub>=200mA。其它特别说明除外。)

| 型号<br>TYPE | 稳压值<br>Nominal<br>Zener<br>Voltage<br>V <sub>Z</sub> @I <sub>ZT</sub><br>Volts | 测试电流<br>Test<br>Current<br>I <sub>ZT</sub><br>mA | 最大动态阻抗<br>Max Zener Impedance<br>A and B Suffix only |  | 漏电流<br>Max Reverse<br>Leakage Current |                              | 温度系数<br>Max Zener Voltage<br>Temperature Coff<br>(A and B suffix only)<br>VZ(%/°C) | 外型尺寸<br>Package<br>Dimensions   |
|------------|--|--|--|--|---------------------------------------|------------------------------|--|---|
|            |  |  | Z <sub>ZT</sub> @I <sub>ZT</sub><br>Ohms             | Z <sub>ZK</sub> @I <sub>ZK</sub><br>= 0.25mA<br>Ohms | I <sub>R</sub><br>μA                  | V <sub>R</sub><br>Volts<br>B |  |   |
| 1N5256B    | 30   | 4.2  | 49   | 600  | 0.1                                   | 23                           | +0.091   | <br>DO-35<br>(mm) |
| 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   |   |

 NOTE: The V<sub>Z</sub> value shown is the center value with tolerance designations as follows:

 suffix B: V<sub>Z</sub>±5%  
 suffix C: V<sub>Z</sub>±2%  
 suffix D: V<sub>Z</sub>±1%

 注: V<sub>Z</sub>为稳压中心值, 其中 B 档 V<sub>Z</sub>容差±5%  
 C 档 V<sub>Z</sub>容差±2%  
 D 档 V<sub>Z</sub>容差±1%