**YZPST-1N5220B-1N5281B**

**SILCON PLANAR ZENER DIODES**

Standard Zener voltage

toleranceis ±20%.

Add suffix"A" for±10%

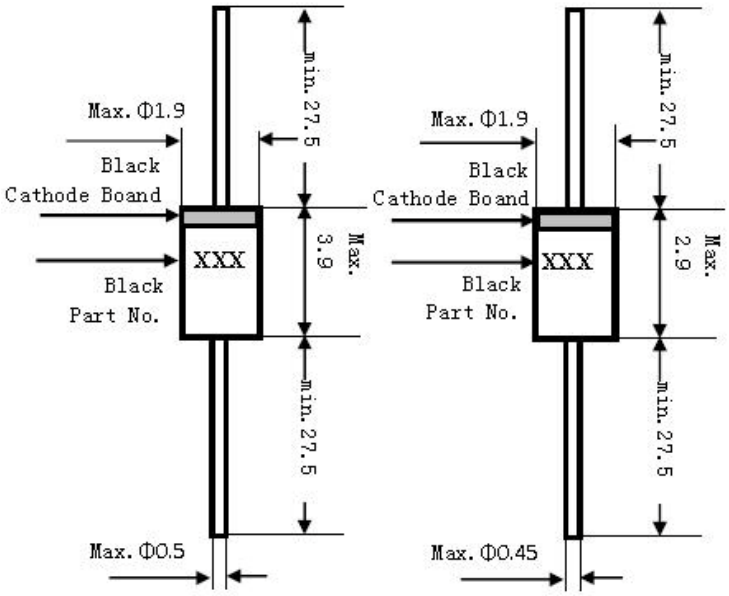
suffix "B" for ±5%

Tolerance.suffix "C" for ±2%

tolerance .Other tolerance.

non standard and higher Zener

voltages are upon request.




Gass case DO-35
Dimensions in mm

Gass case DO-34
Dimensions in mm

## Absolute Maximum Ratings(Ta=25℃)

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Power Dissipation at $T_{amb}$=75℃ | $P_{tot}$ | 500[1)] | mW |
| Junction Temperature | $T_j$ | 200 | ℃ |
| Storage Temperature Range | $T_s$ | -65 to +200 | ℃ |
| [1)] Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case. | | | |
| | | | |
| Characteristics at $T_a$=25℃ | | | |
| Parameter | Symbol | Max. | Unit |
| Thermal Resistance Junction to Ambient Air | $R_{thA}$ | 0.3[1)] | K/mW |
| Forward Voltage at $I_F$=200mA | $V_F$ | 1.1 | V |
| [1)] Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case. | | | |



Tel: +86-514-87782298 FAX:+86-514-87782297 E-mail: info@yzpst.com;
Web Site:www.Pst888.com www.yzpstcc.com www.yzpst.net www.yzpst.com

| TYPE | Zener Voltage Range | | Maximum Zener Impedance[1)] | | | Maximum Reverse Leakage Current | | Temp.Coefficient of Zener Voltage |
|---|---|---|---|---|---|---|---|---|
| | $V_Z$ | $I_{ZT}$ | $I_{ZT}$ | $I_{ZK}$ | at $I_{ZK}$ | $I_R$[2)] | at $V_R$ | $TK_{VZ}$ |
| | V | mA | Ω | Ω | mA | μA | V | %/K |

**500mw ZENER DIODES/DO-35 or DO-34**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1N5220B | 2.2 | 20 | 30 | 1150 | 0.25 | 100 | 1 | <-0.085 |
| 1N5221B | 2.4 | 20 | 30 | 1200 | 0.25 | 100 | 1 | <-0.085 |
| 1N5222B | 2.5 | 20 | 30 | 1250 | 0.25 | 100 | 1 | <-0.085 |
| 1N5223B | 2.7 | 20 | 30 | 1300 | 0.25 | 75 | 1 | <-0.080 |
| 1N5224B | 2.8 | 20 | 30 | 1400 | 0.25 | 75 | 1 | <-0.080 |
| 1N5225B | 3 | 20 | 29 | 1600 | 0.25 | 50 | 1 | <-0.075 |
| 1N5226B | 3.3 | 20 | 28 | 1600 | 0.25 | 25 | 1 | <-0.070 |
| 1N5227B | 3.6 | 20 | 24 | 1700 | 0.25 | 15 | 1 | <-0.065 |
| 1N5228B | 3.9 | 20 | 23 | 1900 | 0.25 | 10 | 1 | <-0.060 |
| 1N5229B | 4.3 | 20 | 22 | 2000 | 0.25 | 5 | 1 | <-0.055 |
| 1N5230B | 4.7 | 20 | 19 | 1900 | 0.25 | 5 | 2 | <±0.030 |
| 1N5231B | 5.1 | 20 | 17 | 1600 | 0.25 | 5 | 2 | <±0.030 |
| 1N5232B | 5.6 | 20 | 11 | 1600 | 0.25 | 5 | 3 | <+0.038 |
| 1N5233B | 6 | 20 | 7 | 1600 | 0.25 | 5 | 3.5 | <+0.038 |
| 1N5234B | 6.2 | 20 | 7 | 1000 | 0.25 | 5 | 4 | <+0.045 |
| 1N5235B | 6.8 | 20 | 5 | 750 | 0.25 | 3 | 5 | <+0.050 |
| 1N5236B | 7.5 | 20 | 6 | 500 | 0.25 | 3 | 6 | <+0.058 |
| 1N5237B | 8.2 | 20 | 8 | 500 | 0.25 | 3 | 6.5 | <+0.062 |
| 1N5238B | 8.7 | 20 | 8 | 600 | 0.25 | 3 | 6.5 | <+0.065 |
| 1N5239B | 9.1 | 20 | 10 | 600 | 0.25 | 3 | 7 | <+0.068 |
| 1N5240B | 10 | 20 | 17 | 600 | 0.25 | 3 | 8 | <+0.075 |
| 1N5241B | 11 | 20 | 22 | 600 | 0.25 | 2 | 8.4 | <+0.076 |
| 1N5242B | 12 | 20 | 30 | 600 | 0.25 | 1 | 9.1 | <+0.077 |
| 1N5243B | 13 | 9.5 | 13 | 600 | 0.25 | 0.5 | 9.9 | <+0.079 |
| 1N5244B | 14 | 9 | 15 | 600 | 0.25 | 0.1 | 10 | <+0.082 |
| 1N5245B | 15 | 8.5 | 16 | 600 | 0.25 | 0.1 | 11 | <+0.082 |
| 1N5246B | 16 | 7.8 | 17 | 600 | 0.25 | 0.1 | 12 | <+0.083 |
| 1N5247B | 17 | 7.4 | 19 | 600 | 0.25 | 0.1 | 13 | <+0.084 |
| 1N5248B | 18 | 7 | 21 | 600 | 0.25 | 0.1 | 14 | <+0.085 |
| 1N5249B | 19 | 6.6 | 23 | 600 | 0.25 | 0.1 | 14 | <+0.086 |
| 1N5250B | 20 | 6.2 | 25 | 600 | 0.25 | 0.1 | 15 | <+0.086 |
| 1N5251B | 22 | 5.6 | 29 | 600 | 0.25 | 0.1 | 17 | <+0.087 |
| 1N5252B | 24 | 5.2 | 33 | 600 | 0.25 | 0.1 | 18 | <+0.088 |
| 1N5253B | 25 | 5 | 35 | 600 | 0.25 | 0.1 | 19 | <+0.089 |
| 1N5254B | 27 | 4.6 | 41 | 600 | 0.25 | 0.1 | 21 | <+0.090 |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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1N5255B | 28 | 4.5 | 44 | 600 | 0.25 | 0.1 | 21 | <+0.091 |
| 1N5256B | 30 | 4.2 | 49 | 600 | 0.25 | 0.1 | 23 | <+0.091 |
| 1N5257B | 33 | 3.8 | 58 | 700 | 0.25 | 0.1 | 25 | <+0.092 |
| 1N5258B | 36 | 3.4 | 70 | 700 | 0.25 | 0.1 | 27 | <+0.093 |
| 1N5259B | 39 | 3.2 | 80 | 800 | 0.25 | 0.1 | 30 | <+0.094 |
| 1N5260B | 43 | 3 | 93 | 900 | 0.25 | 0.1 | 33 | <+0.095 |
| 1N5261B | 47 | 2.7 | 105 | 1000 | 0.25 | 0.1 | 36 | <+0.095 |
| 1N5262B | 51 | 2.5 | 125 | 1100 | 0.25 | 0.1 | 39 | <+0.096 |
| 1N5263B | 56 | 2.2 | 150 | 1300 | 0.25 | 0.1 | 43 | <+0.096 |
| 1N5264B | 60 | 2.1 | 170 | 1400 | 0.25 | 0.1 | 46 | <+0.097 |
| 1N5265B | 62 | 2 | 185 | 1400 | 0.25 | 0.1 | 47 | <+0.097 |
| 1N5266B | 68 | 1.8 | 230 | 1600 | 0.25 | 0.1 | 52 | <+0.097 |

| **TYPE** | **Zener Voltage Range** | | **Maximum Zener Impedance[1)]** | | | **Maximum Reverse Leakage Current** | | **Temp.Coefficient of Zener Voltage** |
|---|---|---|---|---|---|---|---|---|
| | **$V_Z$** | **$I_{ZT}$** | **$I_{ZT}$** | **$I_{ZK}$** | **at $I_{ZK}$** | **$I_R$[2)]** | **at $V_R$** | **$TK_{VZ}$** |
| | **V** | **mA** | **Ω** | **Ω** | **mA** | **μ A** | **V** | **%/K** |

**500mw ZENER DIODES/DO-35 or DO-34**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1N5267B | 75 | 1.7 | 270 | 1700 | 0.25 | 0.1 | 56 | <+0.098 |
| 1N5268B | 82 | 1.5 | 330 | 2000 | 0.25 | 0.1 | 62 | <+0.098 |
| 1N5269B | 87 | 1.4 | 370 | 2200 | 0.25 | 0.1 | 68 | <+0.099 |
| 1N5270B | 91 | 1.4 | 400 | 2300 | 0.25 | 0.1 | 69 | <+0.099 |
| 1N5271B | 100 | 1.3 | 500 | — | — | 0.1 | 75 | <+0.100 |
| 1N5272B | 110 | 1.2 | 700 | — | — | 0.1 | 83 | <+0.100 |
| 1N5273B | 120 | 1 | 950 | — | — | 0.1 | 90 | <+0.100 |
| 1N5274B | 130 | 0.95 | 1100 | — | — | 0.1 | 98 | <+0.110 |
| 1N5275B | 140 | 0.9 | 1300 | — | — | 0.1 | 105 | <+0.110 |
| 1N5276B | 150 | 0.85 | 1500 | — | — | 0.1 | 113 | <+0.110 |
| 1N5277B | 160 | 0.8 | 1700 | — | — | 0.1 | 120 | <+0.115 |
| 1N5278B | 170 | 0.74 | 1900 | — | — | 0.1 | 127 | <+0.115 |
| 1N5279B | 180 | 0.68 | 2200 | — | — | 0.1 | 135 | <+0.120 |
| 1N5280B | 190 | 0.66 | 2400 | — | — | 0.1 | 142 | <+0.120 |
| 1N5281B | 200 | 0.65 | 2500 | — | — | 0.1 | 150 | <+0.120 |

[1)]The Zener Impedance is derived from the 60HZ AC voltage which results when an AC current having RMS value equal to 10% of the Zener Current(IZT or IZK) is superimpose on IZ or Izk. Zener Impedance is measured at two pointts to insure a sharp knee on the breadown curve and to eliminate unstable units.

[2)]Valid povided that leads at a distanc of 8 mm from case are kept at kept at ambient temperature.


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