

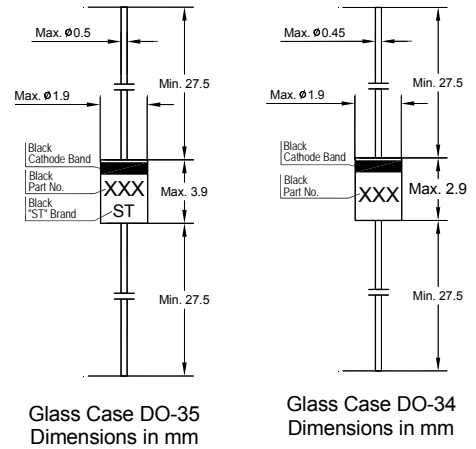
1N5220PF...1N5267PF

Silicon Planar Zener Diodes

Standard Zener voltage tolerance is $\pm 20\%$.
 Add suffix "A" for $\pm 10\%$ Tolerance, suffix
 "B" for $\pm 5\%$ tolerance, suffix "C" for $\pm 2\%$
 tolerance, Other tolerance, non standard
 and higher Zener voltages are upon request.

Features

- Lead Free



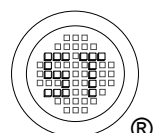
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|---------------------------|------------------|---------------|------------------|
| Power Dissipation | P_{tot} | 500 | mW |
| Junction Temperature | T_j | 175 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | - 65 to + 175 | $^\circ\text{C}$ |

Thermal Characteristics

| Parameter | Symbol | Max. | Unit |
|--|-----------------------|------|--------------------|
| Thermal Resistance Junction to Ambient ¹⁾ | $R_{\theta\text{JA}}$ | 300 | $^\circ\text{C/W}$ |

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

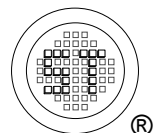


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Characteristics at $T_a = 25^\circ\text{C}$ (V_F max : 1.1 V at $I_F = 200$ mA)

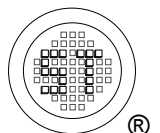
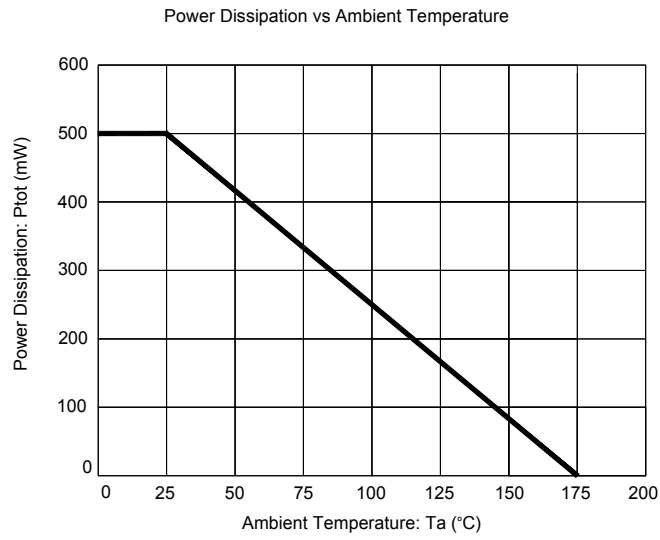
| Type | Zener Voltage Range ¹⁾ | | | Dynamic Resistance | | | Reverse Current | | Temp. Coefficient of Zener Voltage | |
|-----------|-----------------------------------|----------|----------|--------------------|-------------------|-------------------|-----------------|------------------------|------------------------------------|---------------|
| | V_{Znom} | V_{ZT} | | at I_{ZT} | Z_{ZT} | Z_{ZK} | at I_{ZK} | I_R | at V_R | TK_{VZ} |
| | (V) | Min. (V) | Max. (V) | (mA) | Max. (Ω) | Max. (Ω) | (mA) | Max. (μA) | (V) | %/K |
| 1N5220BPF | 2.2 | 2.09 | 2.31 | 20 | 30 | 1150 | 0.25 | 100 | 1 | <-0.085 |
| 1N5221BPF | 2.4 | 2.28 | 2.52 | 20 | 30 | 1200 | 0.25 | 100 | 1 | <-0.085 |
| 1N5222BPF | 2.5 | 2.38 | 2.62 | 20 | 30 | 1250 | 0.25 | 100 | 1 | <-0.085 |
| 1N5223BPF | 2.7 | 2.57 | 2.83 | 20 | 30 | 1300 | 0.25 | 75 | 1 | <-0.080 |
| 1N5224BPF | 2.8 | 2.66 | 2.94 | 20 | 30 | 1400 | 0.25 | 75 | 1 | <-0.080 |
| 1N5225BPF | 3 | 2.85 | 3.15 | 20 | 29 | 1600 | 0.25 | 50 | 1 | <-0.075 |
| 1N5226BPF | 3.3 | 3.14 | 3.46 | 20 | 28 | 1600 | 0.25 | 25 | 1 | <-0.070 |
| 1N5227BPF | 3.6 | 3.42 | 3.78 | 20 | 24 | 1700 | 0.25 | 15 | 1 | <-0.065 |
| 1N5228BPF | 3.9 | 3.71 | 4.09 | 20 | 23 | 1900 | 0.25 | 10 | 1 | <-0.060 |
| 1N5229BPF | 4.3 | 4.09 | 4.51 | 20 | 22 | 2000 | 0.25 | 5 | 1 | <-0.055 |
| 1N5230BPF | 4.7 | 4.47 | 4.93 | 20 | 19 | 1900 | 0.25 | 5 | 2 | < \pm 0.030 |
| 1N5231BPF | 5.1 | 4.85 | 5.35 | 20 | 17 | 1600 | 0.25 | 5 | 2 | < \pm 0.030 |
| 1N5232BPF | 5.6 | 5.32 | 5.88 | 20 | 11 | 1600 | 0.25 | 5 | 3 | <+0.038 |
| 1N5233BPF | 6 | 5.7 | 6.3 | 20 | 7 | 1600 | 0.25 | 5 | 3.5 | <+0.038 |
| 1N5234BPF | 6.2 | 5.89 | 6.51 | 20 | 7 | 1000 | 0.25 | 5 | 4 | <+0.045 |
| 1N5235BPF | 6.8 | 6.46 | 7.14 | 20 | 5 | 750 | 0.25 | 3 | 5 | <+0.050 |
| 1N5236BPF | 7.5 | 7.13 | 7.87 | 20 | 6 | 500 | 0.25 | 3 | 6 | <+0.058 |
| 1N5237BPF | 8.2 | 7.79 | 8.61 | 20 | 8 | 500 | 0.25 | 3 | 6.5 | <+0.062 |
| 1N5238BPF | 8.7 | 8.27 | 9.13 | 20 | 8 | 600 | 0.25 | 3 | 6.5 | <+0.065 |
| 1N5239BPF | 9.1 | 8.65 | 9.55 | 20 | 10 | 600 | 0.25 | 3 | 7 | <+0.068 |
| 1N5240BPF | 10 | 9.5 | 10.5 | 20 | 17 | 600 | 0.25 | 3 | 8 | <+0.075 |
| 1N5241BPF | 11 | 10.45 | 11.55 | 20 | 22 | 600 | 0.25 | 2 | 8.4 | <+0.076 |
| 1N5242BPF | 12 | 11.4 | 12.6 | 20 | 30 | 600 | 0.25 | 1 | 9.1 | <+0.077 |
| 1N5243BPF | 13 | 12.35 | 13.65 | 9.5 | 13 | 600 | 0.25 | 0.5 | 9.9 | <+0.079 |
| 1N5244BPF | 14 | 13.3 | 14.7 | 9 | 15 | 600 | 0.25 | 0.1 | 10 | <+0.082 |
| 1N5245BPF | 15 | 14.25 | 15.75 | 8.5 | 16 | 600 | 0.25 | 0.1 | 11 | <+0.082 |
| 1N5246BPF | 16 | 15.2 | 16.8 | 7.8 | 17 | 600 | 0.25 | 0.1 | 12 | <+0.083 |
| 1N5247BPF | 17 | 16.15 | 17.85 | 7.4 | 19 | 600 | 0.25 | 0.1 | 13 | <+0.084 |
| 1N5248BPF | 18 | 17.1 | 18.9 | 7 | 21 | 600 | 0.25 | 0.1 | 14 | <+0.085 |
| 1N5249BPF | 19 | 18.05 | 19.95 | 6.6 | 23 | 600 | 0.25 | 0.1 | 14 | <+0.086 |
| 1N5250BPF | 20 | 19 | 21 | 6.2 | 25 | 600 | 0.25 | 0.1 | 15 | <+0.086 |
| 1N5251BPF | 22 | 20.9 | 23.1 | 5.6 | 29 | 600 | 0.25 | 0.1 | 17 | <+0.087 |
| 1N5252BPF | 24 | 22.8 | 25.2 | 5.2 | 33 | 600 | 0.25 | 0.1 | 18 | <+0.088 |
| 1N5253BPF | 25 | 23.75 | 26.25 | 5 | 35 | 600 | 0.25 | 0.1 | 19 | <+0.089 |
| 1N5254BPF | 27 | 25.65 | 28.35 | 4.6 | 41 | 600 | 0.25 | 0.1 | 21 | <+0.090 |
| 1N5255BPF | 28 | 26.6 | 29.4 | 4.5 | 44 | 600 | 0.25 | 0.1 | 21 | <+0.091 |
| 1N5256BPF | 30 | 28.5 | 31.5 | 4.2 | 49 | 600 | 0.25 | 0.1 | 23 | <+0.091 |
| 1N5257BPF | 33 | 31.35 | 34.65 | 3.8 | 58 | 700 | 0.25 | 0.1 | 25 | <+0.092 |
| 1N5258BPF | 36 | 34.2 | 37.8 | 3.4 | 70 | 700 | 0.25 | 0.1 | 27 | <+0.093 |
| 1N5259BPF | 39 | 37.05 | 40.95 | 3.2 | 80 | 800 | 0.25 | 0.1 | 30 | <+0.094 |
| 1N5260BPF | 43 | 40.85 | 45.15 | 3 | 93 | 900 | 0.25 | 0.1 | 33 | <+0.095 |
| 1N5261BPF | 47 | 44.65 | 49.35 | 2.7 | 105 | 1000 | 0.25 | 0.1 | 36 | <+0.095 |
| 1N5262BPF | 51 | 48.45 | 53.55 | 2.5 | 125 | 1100 | 0.25 | 0.1 | 39 | <+0.096 |
| 1N5263BPF | 56 | 53.2 | 58.8 | 2.2 | 150 | 1300 | 0.25 | 0.1 | 43 | <+0.096 |
| 1N5264BPF | 60 | 57 | 63 | 2.1 | 170 | 1400 | 0.25 | 0.1 | 46 | <+0.097 |
| 1N5265BPF | 62 | 58.9 | 65.1 | 2 | 185 | 1400 | 0.25 | 0.1 | 47 | <+0.097 |
| 1N5266BPF | 68 | 64.6 | 71.4 | 1.8 | 230 | 1600 | 0.25 | 0.1 | 52 | <+0.097 |
| 1N5267BPF | 75 | 71.25 | 78.75 | 1.7 | 270 | 1700 | 0.25 | 0.1 | 56 | <+0.098 |

¹⁾ Tested with pulses $t_p = 20$ ms.



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