

Zeners 1N5226B - 1N5257B

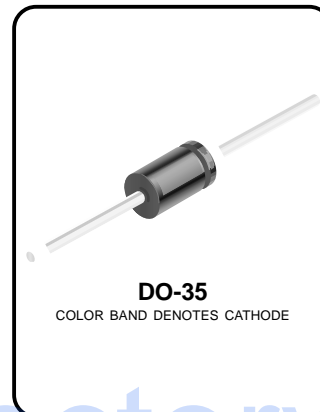
Zeners (1N5226B - 1N5257B)

Absolute Maximum Ratings*

$T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Value | Units |
|-----------|---|-------------|----------------------|
| P_D | Power Dissipation | 500 | mW |
| | Derate above 75°C | 4.0 | mW/ $^\circ\text{C}$ |
| T_{STG} | Storage Temperature Range | -65 to +200 | $^\circ\text{C}$ |
| T_J | Maximum Junction Operating Temperature | + 200 | $^\circ\text{C}$ |
| | Lead Temperature (1/16" from case for 10 seconds) | + 230 | $^\circ\text{C}$ |
| | Surge Power** | 10 | W |

Tolerance: B = 5%



*These ratings are limiting values above which the serviceability of the diode may be impaired.

**Non-recurrent square wave PW= 8.3 ms, TA= 50 degrees C.

NOTES:

- 1) These ratings are based on a maximum junction temperature of 200 degrees C.
- 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Electrical Characteristics

$T_A = 25^\circ\text{C}$ unless otherwise noted

| Device | V_Z (V) | Z_Z (Ω) | @ I_{ZT} (mA) | Z_{ZK} (Ω) | @ I_{ZK} (mA) | V_R (V) | @ I_R (μA) | T_C (%/ $^\circ\text{C}$) |
|---------|--------------|-----------------------|-----------------------|--------------------------|-----------------------|--------------|---------------------------------|---------------------------------|
| 1N5226B | 3.3 | 28 | 20 | 1,600 | 0.25 | 1.0 | 25 | - 0.07 |
| 1N5227B | 3.6 | 24 | 20 | 1,700 | 0.25 | 1.0 | 15 | - 0.065 |
| 1N5228B | 3.9 | 23 | 20 | 1,900 | 0.25 | 1.0 | 10 | - 0.06 |
| 1N5229B | 4.3 | 22 | 20 | 2,000 | 0.25 | 1.0 | 5.0 | +/- 0.055 |
| 1N5230B | 4.7 | 19 | 20 | 1,900 | 0.25 | 2.0 | 5.0 | +/- 0.03 |
| 1N5231B | 5.1 | 17 | 20 | 1,600 | 0.25 | 2.0 | 5.0 | +/- 0.03 |
| 1N5232B | 5.6 | 11 | 20 | 1,600 | 0.25 | 3.0 | 5.0 | 0.038 |
| 1N5233B | 6.0 | 7.0 | 20 | 1,600 | 0.25 | 3.5 | 5.0 | 0.038 |
| 1N5234B | 6.2 | 7.0 | 20 | 1,000 | 0.25 | 4.0 | 5.0 | 0.045 |
| 1N5235B | 6.8 | 5.0 | 20 | 750 | 0.25 | 5.0 | 3.0 | 0.05 |
| 1N5236B | 7.5 | 6.0 | 20 | 500 | 0.25 | 6.0 | 3.0 | 0.058 |
| 1N5237B | 8.2 | 8.0 | 20 | 500 | 0.25 | 6.5 | 3.0 | 0.062 |
| 1N5238B | 8.7 | 8.0 | 20 | 600 | 0.25 | 6.5 | 3.0 | 0.065 |
| 1N5239B | 9.1 | 10 | 20 | 600 | 0.25 | 7.0 | 3.0 | 0.068 |
| 1N5240B | 10 | 17 | 20 | 600 | 0.25 | 8.0 | 3.0 | 0.075 |
| 1N5241B | 11 | 22 | 20 | 600 | 0.25 | 8.4 | 2.0 | 0.076 |

V_F Forward Voltage = 1.1 V Maximum @ $I_F = 200$ mA for all 1N5200 series

Zeners (1N5226B - 1N5257B)

(continued)

Electrical Characteristics (Continued)

$T_A = 25^\circ\text{C}$ unless otherwise noted

| Device | V_Z (V) | Z_Z (Ω) | I_{ZT} (mA) | Z_{ZK} (Ω) | I_{ZK} (mA) | V_R (V) | I_R (μA) | T_C (%/°C) |
|---------|--------------|-----------------------|------------------|--------------------------|------------------|--------------|----------------------------|-----------------|
| 1N5242B | 12 | 30 | 20 | 600 | 0.25 | 9.1 | 0.1 | 0.077 |
| 1N5243B | 13 | 13 | 9.5 | 600 | 0.25 | 9.9 | 0.1 | 0.079 |
| 1N5244B | 14 | 15 | 9.0 | 600 | 0.25 | 10 | 0.1 | 0.080 |
| 1N5245B | 15 | 16 | 8.5 | 600 | 0.25 | 11 | 0.1 | 0.082 |
| 1N5246B | 16 | 17 | 7.8 | 600 | 0.25 | 12 | 0.1 | 0.083 |
| 1N5247B | 17 | 19 | 7.4 | 600 | 0.25 | 13 | 0.1 | 0.084 |
| 1N5248B | 18 | 21 | 7.0 | 600 | 0.25 | 14 | 0.1 | 0.085 |
| 1N5249B | 19 | 23 | 6.6 | 600 | 0.25 | 14 | 0.1 | 0.085 |
| 1N5250B | 20 | 25 | 6.2 | 600 | 0.25 | 15 | 0.1 | 0.086 |
| 1N5251B | 22 | 29 | 5.6 | 600 | 0.25 | 17 | 0.1 | 0.087 |
| 1N5252B | 24 | 33 | 5.2 | 600 | 0.25 | 18 | 0.1 | 0.088 |
| 1N5253B | 25 | 35 | 5.0 | 600 | 0.25 | 19 | 0.1 | 0.088 |
| 1N5254B | 27 | 41 | 4.6 | 600 | 0.25 | 21 | 0.1 | 0.089 |
| 1N5255B | 28 | 44 | 4.5 | 600 | 0.25 | 21 | 0.1 | 0.090 |
| 1N5256B | 30 | 49 | 4.2 | 600 | 0.25 | 23 | 0.1 | 0.091 |
| 1N5257B | 33 | 58 | 3.8 | 700 | 0.25 | 25 | 0.1 | 0.092 |

V_F Forward Voltage = 1.1 V Maximum @ $I_F = 200$ mA for all 1N5200 series

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| 1N5235BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 235 B STD CATHODE | TAPE REEL |

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| 1N5237BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 237 B STD CATHODE | TAPE REEL |
| 1N5237B | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 237 B STD CATHODE BAN | BULK |

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|-----------|-----------------|----------|-----------------------|-------|--|----------------|
| 1N5238BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 238 B STD CATHODE | TAPE REEL |
| 1N5238B | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 238 B STD CATHODE BAN | BULK |

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|-----------|-----------------|----------|-----------------------|-------|--|----------------|
| 1N5239B | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 239 B STD CATHODE BAN | BULK |
| 1N5239BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 239 B STD CATHODE | TAPE REEL |

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| 1N5240BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 240 B STD CATHODE | TAPE REEL |
| 1N5240B | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 240 B STD CATHODE BAN | BULK |

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| 1N5241B | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 241 B STD CATHODE BAN | BULK |

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| 1N5242BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 242 B STD CATHODE | TAPE REEL |

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| 1N5244BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 244 B STD CATHODE | TAPE REEL |

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| 1N5246BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 246 B STD CATHODE | TAPE REEL |

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| 1N5247BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 247 B STD CATHODE | TAPE REEL |

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|-----------|-----------------|----------|-----------------------|-------|--|----------------|
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| 1N5249B | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 249 B STD CATHODE BAN | BULK |

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| 1N5253BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 253 B | TAPE REEL |

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| 1N5254BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 254 B | TAPE REEL |

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|-----------|-----------------|----------|-----------------------|-------|--|----------------|
| 1N5251BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 251 B | TAPE REEL |
| 1N5251B | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 251 B STD CATHODE BAN | BULK |

* 1,000 piece Budgetary Pricing

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|-----------|-----------------|----------|-----------------------|-------|--|----------------|
| 1N5250B | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 250 B STD CATHODE BAN | BULK |
| 1N5250BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 250 B | TAPE REEL |

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|-----------|-----------------|----------|-----------------------|-------|--|----------------|
| 1N5256B | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 256 B STD CATHODE BAN | BULK |
| 1N5256BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 256 B | TAPE REEL |

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| 1N5243BTR | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 243 B STD CATHODE | TAPE REEL |
| 1N5243B | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 243 B STD CATHODE BAN | BULK |

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| 1N5257B | Full Production | \$0.053 | DO-35 | 2 | \$Y 1N5 257 B STD CATHODE BAN | BULK |

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