1N5985B - 1N6025B — Zener Diodes



1N5985B - 1N6025B Zener Diodes



Absolute Maximum Ratings * T_A=25°C unless otherwise noted

| Symbol | Parameter | Value | Units |
|--------------------|---|-------------|-------|
| P _D | Power Dissipation @ TL \leq 75°C, Lead Length = 3/8" | 500 | mW |
| | Derate above 75°C | 4.0 | mW/°C |
| $T_{J_{J}}T_{STG}$ | Operating and Storage Temperature Range | -65 to +200 | °C |

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

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

| | V _Z (V) | @Iz (N | lote 1) | Test Current | Zener Impedance | | leakage Current | | 1 (mA) |
|---------|--------------------|--------|---------|---------------------|--|--|------------------------|-----------------------|----------------------------------|
| Device | Min. | Тур. | Max. | I _Z (mA) | Z _Z @ I _Z (Ω) | Z _{ZK} @ I _{ZK} = 250μA (Ω) | I _R (mA) | V _R (V) | I _{ZM} (mA) (Note 2) |
| 1N5985B | 2.58 | 2.4 | 2.52 | 5 | 100 | 1800 | 100 | 1 | 208 |
| 1N5986B | 2.565 | 2.7 | 2.835 | 5 | 100 | 1900 | 75 | 1 | 185 |
| 1N5987B | 2.85 | 3 | 3.15 | 5 | 95 | 2000 | 50 | 1 | 167 |
| 1N5988B | 3.135 | 3.3 | 3.465 | 5 | 95 | 2200 | 25 | 1 | 152 |
| 1N5989B | 3.42 | 3.6 | 3.78 | 5 | 90 | 2300 | 15 | 1 | 139 |
| 1N5990B | 3.705 | 3.9 | 4.095 | 5 | 90 | 2400 | 10 | 1 | 128 |
| 1N5991B | 4.085 | 4.3 | 4.515 | 5 | 88 | 2500 | 5 | 1 | 116 |
| 1N5992B | 4.465 | 4.7 | 4.935 | 5 | 70 | 2200 | 3 | 1.5 | 106 |
| 1N5993B | 4.845 | 5.1 | 5.355 | 5 | 50 | 2050 | 2 | 2 | 98 |
| 1N5994B | 5.32 | 5.6 | 5.88 | 5 | 25 | 1800 | 2 | 3 | 89 |
| 1N5995B | 5.89 | 6.2 | 6.51 | 5 | 10 | 1300 | 1 | 4 | 81 |
| 1N5996B | 6.46 | 6.8 | 7.14 | 5 | 8 | 750 | 1 | 5.2 | 74 |
| 1N5997B | 7.125 | 7.5 | 7.875 | 5 | 7 | 600 | 0.5 | 6 | 67 |
| 1N5998B | 7.79 | 8.2 | 8.61 | 5 | 7 | 600 | 0.5 | 6.5 | 61 |
| 1N5999B | 8.645 | 9.1 | 9.555 | 5 | 10 | 600 | 0.1 | 7 | 55 |

March 2010

| V _Z (V) @ I _Z (I | | Note 1) | - | Zener Impedance | | leakage Current | | | |
|--|-------|---------|-------|-------------------------------------|--|--|------------------------|-----------------------|----------------------------------|
| Device | Min. | Тур. | Max. | Test Current I _Z (mA) | Z _Z @ I _Z (Ω) | Z _{ZK} @ I _{ZK} = 250μA (Ω) | I _R (mA) | V _R (V) | I _{ZM} (mA) (Note 2) |
| 1N6000B | 9.5 | 10 | 10.5 | 5 | 15 | 600 | 0.1 | 8 | 50 |
| 1N6001B | 10.45 | 11 | 11.55 | 5 | 18 | 600 | 0.1 | 8.4 | 45 |
| 1N6002B | 11.4 | 12 | 12.6 | 5 | 22 | 600 | 0.1 | 9.1 | 42 |
| 1N6003B | 12.35 | 13 | 13.65 | 5 | 25 | 600 | 0.1 | 9.9 | 38 |
| 1N6004B | 14.25 | 15 | 15.75 | 5 | 32 | 600 | 0.1 | 11 | 33 |
| 1N6005B | 15.2 | 16 | 16.8 | 5 | 36 | 600 | 0.1 | 12 | 31 |
| 1N6006B | 17.1 | 18 | 18.9 | 5 | 42 | 600 | 0.1 | 14 | 28 |
| 1N6007B | 19 | 20 | 21 | 5 | 48 | 600 | 0.1 | 15 | 25 |
| 1N6008B | 20.9 | 22 | 23.1 | 5 | 55 | 600 | 0.1 | 17 | 23 |
| 1N6009B | 22.8 | 24 | 25.2 | 5 | 62 | 600 | 0.1 | 18 | 21 |
| 1N6010B | 25.65 | 27 | 28.35 | 5 | 70 | 600 | 0.1 | 21 | 19 |
| 1N6011B | 28.5 | 30 | 31.5 | 5 | 78 | 600 | 0.1 | 23 | 17 |
| 1N6012B | 31.35 | 33 | 34.65 | 5 | 88 | 700 | 0.1 | 25 | 15 |
| 1N6013B | 34.2 | 36 | 37.8 | 5 | 95 | 700 | 0.1 | 27 | 14 |
| 1N6014B | 37.05 | 39 | 40.95 | 2 | 130 | 800 | 0.1 | 30 | 13 |
| 1N6015B | 40.85 | 43 | 45.15 | 2 | 150 | 900 | 0.1 | 33 | 12 |
| 1N6016B | 44.65 | 47 | 49.35 | 2 | 170 | 1000 | 0.1 | 36 | 11 |
| 1N6017B | 48.45 | 51 | 53.55 | 2 | 180 | 1300 | 0.1 | 39 | 9.8 |
| 1N6018B | 53.2 | 56 | 58.8 | 2 | 200 | 1400 | 0.1 | 43 | 8.9 |
| 1N6019B | 58.9 | 62 | 65.1 | 2 | 225 | 1400 | 0.1 | 47 | 8 |
| 1N6020B | 64.6 | 68 | 71.4 | 2 | 240 | 1600 | 0.1 | 52 | 7.4 |
| 1N6021B | 71.25 | 75 | 78.75 | 2 | 265 | 1700 | 0.1 | 56 | 6.7 |
| 1N6022B | 77.9 | 82 | 86.1 | 2 | 280 | 2000 | 0.1 | 62 | 6.1 |
| 1N6023B | 86.45 | 91 | 95.55 | 2 | 300 | 2300 | 0.1 | 69 | 5.5 |
| 1N6024B | 95 | 100 | 105 | 1 | 500 | 2600 | 0.1 | 76 | 5 |
| 1N6025B | 104.5 | 110 | 115.5 | 1 | 650 | 3000 | 0.1 | 84 | 4.5 |

Notes:

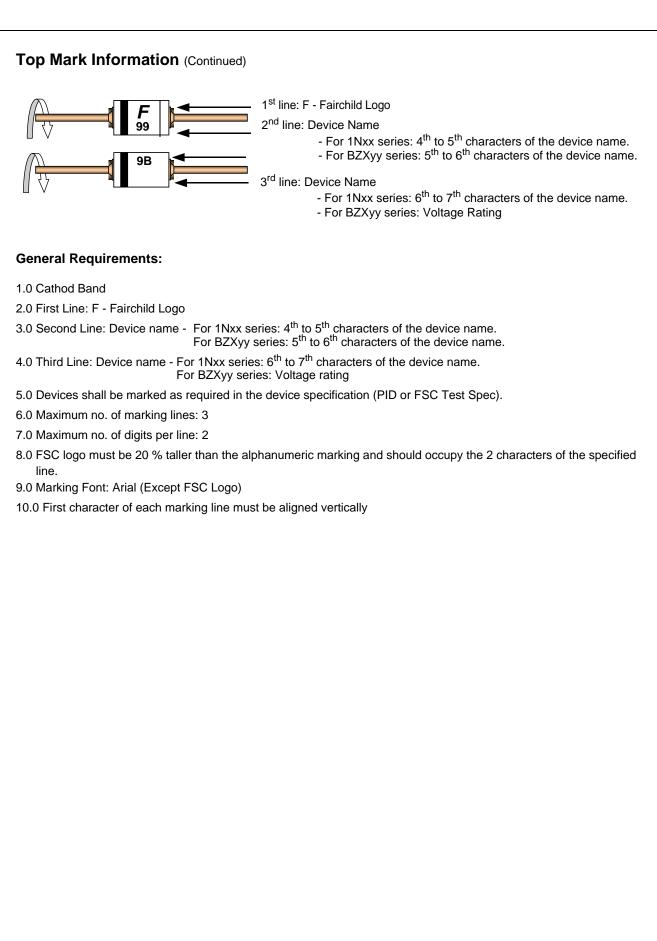
1. Zener Voltage (V_Z)

The zener voltage is measured with the device junction in the themal equilibrium at the lead temperature (T_L) at 30°C ± 1°C and 3/8" lead length.

2. Maximum Zener Current Ratings (I_{ZM})

The maximum current handling capability on a worst case basis is limited by the actual zener voltage at the operation point and the power derating curve.

| 1N5985B LOGO 98 1N5986B LOGO 98 1N5987B LOGO 98 1N5987B LOGO 98 1N5988B LOGO 98 1N5990B LOGO 99 1N5991B LOGO 99 1N5992B LOGO 99 1N5993B LOGO 99 1N5994B LOGO 99 1N5994B LOGO 99 1N5995B LOGO 99 1N5996B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N59998 LOGO 99 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6005B LOGO 00 1N6007B LOGO 00 1N6007B LOGO <t< th=""><th>5B</th><th>Line 2</th><th>Line 1</th><th>Device</th></t<> | 5B | Line 2 | Line 1 | Device |
|--|----|--------|--------|---------|
| 1N5987B LOGO 98 1N5988B LOGO 98 1N5989B LOGO 98 1N5990B LOGO 99 1N5991B LOGO 99 1N5992B LOGO 99 1N5993B LOGO 99 1N5994B LOGO 99 1N5995B LOGO 99 1N5996B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N6000B LOGO 00 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6005B LOGO 00 1N6006B LOGO 00 1N6007B LOGO 01 1N6018 LOGO <td< td=""><td></td><td>98</td><td>LOGO</td><td>1N5985B</td></td<> | | 98 | LOGO | 1N5985B |
| 1N5988B LOGO 98 1N5990B LOGO 98 1N5990B LOGO 99 1N5991B LOGO 99 1N5992B LOGO 99 1N5993B LOGO 99 1N5994B LOGO 99 1N5995B LOGO 99 1N5996B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5998B LOGO 99 1N5998B LOGO 99 1N5998B LOGO 00 1N6008 LOGO 00 1N6008 LOGO 00 1N6007B LOGO 00 1N6007B LOGO 00 1N6007B LOGO 00 1N6007B LOGO 00 1N6018 LOGO 01 1N6018 LOGO 01 | 6B | 98 | LOGO | 1N5986B |
| 1N5989B LOGO 98 1N5990B LOGO 99 1N5991B LOGO 99 1N5992B LOGO 99 1N5993B LOGO 99 1N5993B LOGO 99 1N5994B LOGO 99 1N5995B LOGO 99 1N5996B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5998B LOGO 99 1N5998B LOGO 99 1N5998B LOGO 99 1N6008 LOGO 00 1N6008 LOGO 00 1N6008 LOGO 00 1N6007B LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01< | 7B | 98 | LOGO | 1N5987B |
| IN5990B LOGO 99 1N5991B LOGO 99 1N5992B LOGO 99 1N5993B LOGO 99 1N5993B LOGO 99 1N5994B LOGO 99 1N5995B LOGO 99 1N5996B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5998B LOGO 99 1N5999B LOGO 99 1N600B LOGO 00 1N600B LOGO 01 1N601B LOGO 01 | 8B | 98 | LOGO | 1N5988B |
| 1N5991B LOGO 99 1N5992B LOGO 99 1N5993B LOGO 99 1N5993B LOGO 99 1N5994B LOGO 99 1N5995B LOGO 99 1N5996B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5998B LOGO 99 1N5999B LOGO 99 1N6000B LOGO 00 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6005B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 | 9B | 98 | LOGO | 1N5989B |
| 1N5991B LOGO 99 1N5992B LOGO 99 1N5993B LOGO 99 1N5993B LOGO 99 1N5994B LOGO 99 1N5995B LOGO 99 1N5996B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5998B LOGO 99 1N5999B LOGO 99 1N6000B LOGO 00 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6005B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 | 0B | 99 | LOGO | 1N5990B |
| 1N5992B LOGO 99 1N5993B LOGO 99 1N5994B LOGO 99 1N5995B LOGO 99 1N5996B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5998B LOGO 99 1N600B LOGO 00 1N6005B LOGO 00 1N6006B LOGO 00 1N6007B LOGO 00 1N6010B LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 1N6014B LOGO 01 | 1B | 99 | LOGO | 1N5991B |
| 1N5993B LOGO 99 1N5994B LOGO 99 1N5995B LOGO 99 1N5996B LOGO 99 1N5997B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5999B LOGO 99 1N6000B LOGO 00 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6005B LOGO 00 1N6006B LOGO 00 1N6005B LOGO 00 1N6005B LOGO 00 1N6007B LOGO 00 1N6008 LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 1N6018B LOGO 01 | 2B | | | |
| 1N5994B LOGO 99 1N5995B LOGO 99 1N5996B LOGO 99 1N5997B LOGO 99 1N5997B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5999B LOGO 99 1N6000B LOGO 00 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6005B LOGO 00 1N6007B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 00 1N6018 LOGO 01 1N6018 LOGO 01 1N6013B LOGO 01 1N6013B LOGO 01 1N6015B LOGO 01 1N6015B LOGO | 3B | | | |
| IN5995B LOGO 99 1N5996B LOGO 99 1N5997B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5999B LOGO 99 1N6000B LOGO 00 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6005B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 00 1N6008B LOGO 00 1N6007B LOGO 00 1N6018B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO <t< td=""><td>4B</td><td></td><td></td><td></td></t<> | 4B | | | |
| 1N5996B LOGO 99 1N5997B LOGO 99 1N5998B LOGO 99 1N5999B LOGO 99 1N6000B LOGO 00 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6007B LOGO 00 1N6007B LOGO 00 1N6007B LOGO 00 1N6018 LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 0 | 5B | | | |
| 1N5997B LOGO 99 1N5998B LOGO 99 1N5999B LOGO 99 1N6000B LOGO 00 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6005B LOGO 00 1N6007B LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 1N6018 LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 0 | 6B | 99 | LOGO | |
| 1N5998B LOGO 99 1N5999B LOGO 99 1N6000B LOGO 00 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6005B LOGO 00 1N6007B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 00 1N6007B LOGO 00 1N6018 LOGO 00 1N6018 LOGO 01 | 7B | | | |
| 1N5999B LOGO 99 1N6000B LOGO 00 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 00 1N6018B LOGO 01 1N6011B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO <t< td=""><td>8B</td><td></td><td></td><td></td></t<> | 8B | | | |
| 1N6000B LOGO 00 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6004B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6005B LOGO 00 1N6006B LOGO 00 1N6007B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 00 1N6008B LOGO 01 1N6018B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6018B LOGO <t< td=""><td>9B</td><td></td><td></td><td></td></t<> | 9B | | | |
| 1N6001B LOGO 00 1N6002B LOGO 00 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6006B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 00 1N6008B LOGO 00 1N6008B LOGO 00 1N6008B LOGO 00 1N6018 LOGO 01 1N6018 LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6017B LOGO 01 1N6017B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 | 0B | | | |
| 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6006B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 00 1N6018B LOGO 01 1N6011B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 1B | | | |
| 1N6003B LOGO 00 1N6004B LOGO 00 1N6005B LOGO 00 1N6006B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 00 1N6018B LOGO 01 1N6011B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 2B | 00 | LOGO | 1N6002B |
| 1N6004B LOGO 00 1N6005B LOGO 00 1N6006B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 00 1N6009B LOGO 00 1N6010B LOGO 01 1N6011B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 3B | | | |
| 1N6006B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 00 1N6009B LOGO 00 1N6010B LOGO 01 1N6011B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 4B | | | |
| 1N6006B LOGO 00 1N6007B LOGO 00 1N6008B LOGO 00 1N6009B LOGO 00 1N6010B LOGO 01 1N6011B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 5B | 00 | LOGO | 1N6005B |
| 1N6007B LOGO 00 1N6008B LOGO 00 1N6009B LOGO 00 1N6010B LOGO 01 1N6011B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6017B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 6B | | | |
| 1N6008B LOGO 00 1N6009B LOGO 00 1N6010B LOGO 01 1N6011B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 7B | | | |
| 1N6009B LOGO 00 1N6010B LOGO 01 1N6011B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 8B | | | |
| 1N6011B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 | 9B | | | |
| 1N6011B LOGO 01 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 | 0B | 01 | LOGO | 1N6010B |
| 1N6012B LOGO 01 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 1B | | | |
| 1N6013B LOGO 01 1N6014B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 2B | 01 | | |
| 1N6014B LOGO 01 1N6015B LOGO 01 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 3B | | | |
| 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 4B | | | |
| 1N6016B LOGO 01 1N6017B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 5B | 01 | | |
| 1N6017B LOGO 01 1N6018B LOGO 01 1N6019B LOGO 01 | 6B | | | 1N6016B |
| 1N6018B LOGO 01 1N6019B LOGO 01 | 7B | | | |
| 1N6019B LOGO 01 | 8B | | | |
| | 9B | | | |
| | 0B | 02 | LOGO | 1N6020B |
| 1N6021B LOGO 02 | 1B | | | 1N6021B |
| 1N6022B LOGO 02 | 2B | _ | | |
| 1N6023B LOGO 02 | 3B | | | |
| 1N6024B LOGO 02 | 4B | | | |





SEMICONDUCTOR

TRADEMARKS

The following includes registered and unregistered trademarks and service marks, owned by Fairchild Semiconductor and/or its global subsidiaries, and is not intended to be an exhaustive list of all such trademarks.

| AccuPower TM Auto-SPM TM Build it Now TM CorePLUS TM CorePOWER TM CROSSVOLT TM CTL TM CUrrent Transfer Logic TM DEUXPEED [®] Dual Cool TM EcoSPARK [®] EfficientMax TM \mathbf{F} F airchild [®] Fairchild [®] Fairchild Semiconductor [®] FACT Quiet Series TM FACT [®] FAST [®] FastvCore TM FETBench TM FlashWriter ^{®*} FPS TM F-PFS TM | FRFET [®] Global Power Resource SM Green FPS™ e-Series™ Gmax™ GTO™ IntelliMAX™ ISOPLANAR™ MicroPANTM MicroFET™ MicroPak2™ MicroPak2™ MillerDrive™ MotionMax™ Motion-SPM™ OptoHiTT™ OPTOLOGIC [®] OPTOPLANAR [®] | PowerTrench [®] PowerXS [™] Programmable Active Droop [™] QFET [®] QS [™] Quiet Series [™] RapidConfigure [™] O [™] Saving our world, 1mW/W/kW at a time [™] SignalWise [™] SmartMax [™] SMART START [™] SMART START [™] SPM [®] STEALTH [™] SuperFET [™] SuperFET [™] SuperSOT [™] -6 SuperSOT [™] -8 SupreMOS [™] Sync-Lock [™] Sync-Lock [™] | The Power Franchise Tranchise TinyBoost TM TinyBuck TM TinyCalc TM TinyLogic [®] TINYOPTOTM TinyPOWer TM TinyPOWer TM TinyPOWer TM TinyPOWer TM TinyPOWer TM TinyPOWer TM TinyPOWer TM UNYOPTOTM TinyPOWer TM TinyPOWer TM TinyPOWer TM TinyPOWer TM TinyPOWer TM TinyPOWer TM TinyPower TM TinyPower TM UNYOPTOTM TinyPower TM TinyPower TM T |
|--|---|--|--|
|--|---|--|--|

* Trademarks of System General Corporation, used under license by Fairchild Semiconductor.

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION, OR DESIGN, FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS. THESE SPECIFICATIONS DO NOT EXPAND THE TERMS OF FAIRCHILD'S WORLDWIDE TERMS AND CONDITIONS, SPECIFICALLY THE WARRANTY THEREIN, WHICH COVERS THESE PRODUCTS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein:

- Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- A critical component in any component of a life support, device, or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

ANTI-COUNTERFEITING POLICY

Fairchild Semiconductor Corporation's Anti-Counterfeiting Policy. Fairchild's Anti-Counterfeiting Policy is also stated on our external website, www.fairchildsemi.com, under Sales Support.

Counterfeiting of semiconductor parts is a growing problem in the industry. All manufacturers of semiconductor products are experiencing counterfeiting of their parts. Customers who inadvertently purchase counterfeit parts experience many problems such as loss of brand reputation, substandard performance, failed applications, and increased cost of production and manufacturing delays. Fairchild is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. Fairchild strongly encourages customers to purchase Fairchild parts either directly from Fairchild or from Authorized Fairchild Distributors who are listed by country on our web page cited above. Products customers buy either from Fairchild directly or from Authorized Fairchild Distributors are genuine parts, have full traceability, meet Fairchild's quality standards for handling and storage and provide access to Fairchild's full range of up-to-date technical and product information. Fairchild and our Authorized Distributors will stand behind all warranties and will appropriately address any warranty issues that may arise. Fairchild will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. Fairchild is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

PRODUCT STATUS DEFINITIONS

| Datasheet Identification | Product Status | Definition |
|---------------------------------|-----------------------|---|
| Advance Information | Formative / In Design | Datasheet contains the design specifications for product development. Specifications may change in any manner without notice. |
| Preliminary | First Production | Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design. |
| No Identification Needed | Full Production | Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design. |
| Obsolete | Not In Production | Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only. |

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Fairchild Semiconductor: <u>1N5986B_T50R</u> <u>1N5986B_T50A</u> <u>1N5986B</u>