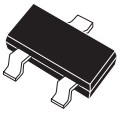
**CMPZ5221B**
**THRU**
**CMPZ5261B**

**350 mW ZENER DIODE**
**5% TOLERANCE**



**SOT-23 CASE**

Central™
Semiconductor Corp.

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMPZ5221B Series Silicon Zener Diode is a high quality voltage regulator for use in industrial, commercial, entertainment and computer applications. Higher voltage devices are available on special order.

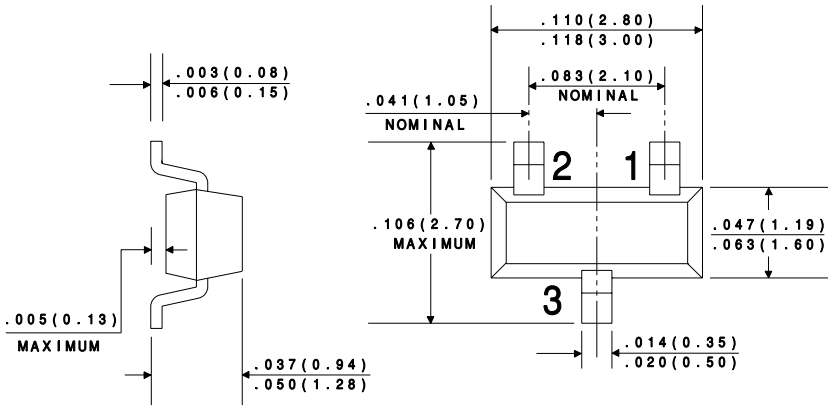
| **ABSOLUTE MAXIMUM RATINGS** | **SYMBOL** | | **UNITS** |
|---|---|---|---|
| Power Dissipation (@ $T_A$=25°C) | $P_D$ | 350 | mW |
| Operating and Storage Temperature | $T_J$,$T_{stg}$ | -65 to + 175 | °C |

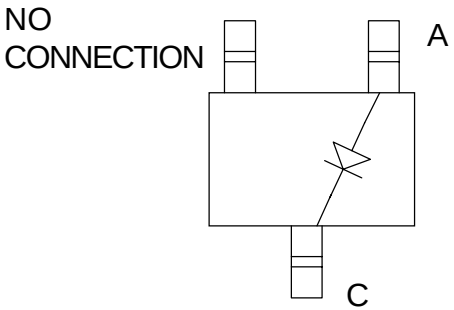
**ELECTRICAL CHARACTERISTICS** ($T_A$=25°C), $V_F$=0.9V MAX @ $I_F$ = 10mA FOR ALL TYPES.

| TYPE | ZENER VOLTAGE $V_Z$ @ $I_{ZT}$ | | | TEST CURRENT | MAXIMUM ZENER IMPEDANCE | | | MAXIMUM REVERSE CURRENT | | MAX. TEMP. COEFF. | MARKING CODE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MIN | NOM | MAX | $I_{ZT}$ | $Z_{ZT}$ @ $I_{ZT}$ | $Z_{ZK}$ @ $I_{ZK}$ | | $I_R$ @ $V_R$ | | $\Theta V_Z$ | |
| | VOLTS | VOLTS | VOLTS | mA | Ω | Ω | mA | μA | VOLTS | %/°C | |
| **CMPZ5221B** | 2.280 | 2.4 | 2.520 | 20 | 30 | 1200 | 0.25 | 100 | 1.0 | -0.085 | 18A |
| **CMPZ5222B** | 2.375 | 2.5 | 2.625 | 20 | 30 | 1250 | 0.25 | 100 | 1.0 | -0.085 | 18B |
| **CMPZ5223B** | 2.565 | 2.7 | 2.835 | 20 | 30 | 1300 | 0.25 | 75 | 1.0 | -0.080 | 18C |
| **CMPZ5224B** | 2.660 | 2.8 | 2.940 | 20 | 30 | 1400 | 0.25 | 75 | 1.0 | -0.080 | 18D |
| **CMPZ5225B** | 2.850 | 3.0 | 3.150 | 20 | 29 | 1600 | 0.25 | 50 | 1.0 | -0.075 | 18E |
| **CMPZ5226B** | 3.135 | 3.3 | 3.465 | 20 | 28 | 1600 | 0.25 | 25 | 1.0 | -0.070 | C8A |
| **CMPZ5227B** | 3.420 | 3.6 | 3.780 | 20 | 24 | 1700 | 0.25 | 15 | 1.0 | -0.065 | C8B |
| **CMPZ5228B** | 3.705 | 3.9 | 4.095 | 20 | 23 | 1900 | 0.25 | 10 | 1.0 | -0.060 | C8C |
| **CMPZ5229B** | 4.085 | 4.3 | 4.515 | 20 | 22 | 2000 | 0.25 | 5.0 | 1.0 | ±0.055 | C8D |
| **CMPZ5230B** | 4.465 | 4.7 | 4.935 | 20 | 19 | 1900 | 0.25 | 5.0 | 2.0 | ±0.030 | C8E |
| **CMPZ5231B** | 4.845 | 5.1 | 5.355 | 20 | 17 | 1600 | 0.25 | 5.0 | 2.0 | ±0.030 | C8F |
| **CMPZ5232B** | 5.320 | 5.6 | 5.880 | 20 | 11 | 1600 | 0.25 | 5.0 | 3.0 | +0.038 | C8G |
| **CMPZ5233B** | 5.700 | 6.0 | 6.300 | 20 | 7.0 | 1600 | 0.25 | 5.0 | 3.5 | +0.038 | C8H |
| **CMPZ5234B** | 5.890 | 6.2 | 6.510 | 20 | 7.0 | 1000 | 0.25 | 5.0 | 4.0 | +0.045 | C8J |
| **CMPZ5235B** | 6.460 | 6.8 | 7.140 | 20 | 5.0 | 750 | 0.25 | 3.0 | 5.0 | +0.050 | C8K |
| **CMPZ5236B** | 7.125 | 7.5 | 7.875 | 20 | 6.0 | 500 | 0.25 | 3.0 | 6.0 | +0.058 | C8L |
| **CMPZ5237B** | 7.790 | 8.2 | 8.610 | 20 | 8.0 | 500 | 0.25 | 3.0 | 6.5 | +0.062 | C8M |
| **CMPZ5238B** | 8.265 | 8.7 | 9.135 | 20 | 8.0 | 600 | 0.25 | 3.0 | 6.5 | +0.065 | C8N |
| **CMPZ5239B** | 8.645 | 9.1 | 9.555 | 20 | 10 | 600 | 0.25 | 3.0 | 7.0 | +0.068 | C8P |
| **CMPZ5240B** | 9.500 | 10 | 10.50 | 20 | 17 | 600 | 0.25 | 3.0 | 8.0 | +0.075 | C8Q |
| **CMPZ5241B** | 10.45 | 11 | 11.55 | 20 | 22 | 600 | 0.25 | 2.0 | 8.4 | +0.076 | C8R |
| **CMPZ5242B** | 11.40 | 12 | 12.60 | 20 | 30 | 600 | 0.25 | 1.0 | 9.1 | +0.077 | C8S |
| **CMPZ5243B** | 12.35 | 13 | 13.65 | 9.5 | 13 | 600 | 0.25 | 0.5 | 9.9 | +0.079 | C8T |
| **CMPZ5244B** | 13.30 | 14 | 14.70 | 9.0 | 15 | 600 | 0.25 | 0.1 | 10 | +0.082 | C8U |

| TYPE | ZENER VOLTAGE $V_Z$ @ $I_{ZT}$ | | | TEST CURRENT | MAXIMUM ZENER IMPEDANCE | | | MAXIMUM REVERSE CURRENT | | MAX. TEMP. COEFF. | MARKING CODE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MIN | NOM | MAX | $I_{ZT}$ | $Z_{ZT}$ @ $I_{ZT}$ | $Z_{ZK}$ @ $I_{ZK}$ | | $I_R$ @ $V_R$ | | $\Theta V_Z$ | |
| | VOLTS | VOLTS | VOLTS | mA | Ω | Ω | mA | µA | VOLTS | %/°C | |
| **CMPZ5245B** | 14.25 | 15 | 15.75 | 8.5 | 16 | 600 | 0.25 | 0.1 | 11 | +0.082 | C8V |
| **CMPZ5246B** | 15.20 | 16 | 16.80 | 7.8 | 17 | 600 | 0.25 | 0.1 | 12 | +0.083 | C8W |
| **CMPZ5247B** | 16.15 | 17 | 17.85 | 7.4 | 19 | 600 | 0.25 | 0.1 | 13 | +0.084 | C8X |
| **CMPZ5248B** | 17.10 | 18 | 18.90 | 7.0 | 21 | 600 | 0.25 | 0.1 | 14 | +0.085 | C8Y |
| **CMPZ5249B** | 18.05 | 19 | 19.95 | 6.6 | 23 | 600 | 0.25 | 0.1 | 14 | +0.086 | C8Z |
| **CMPZ5250B** | 19.00 | 20 | 21.00 | 6.2 | 25 | 600 | 0.25 | 0.1 | 15 | +0.086 | 81A |
| **CMPZ5251B** | 20.90 | 22 | 23.10 | 5.6 | 29 | 600 | 0.25 | 0.1 | 17 | +0.087 | 81B |
| **CMPZ5252B** | 22.80 | 24 | 25.20 | 5.2 | 33 | 600 | 0.25 | 0.1 | 18 | +0.088 | 81C |
| **CMPZ5253B** | 23.75 | 25 | 26.25 | 5.0 | 35 | 600 | 0.25 | 0.1 | 19 | +0.089 | 81D |
| **CMPZ5254B** | 25.65 | 27 | 28.35 | 4.6 | 41 | 600 | 0.25 | 0.1 | 21 | +0.090 | 81E |
| **CMPZ5255B** | 26.60 | 28 | 29.40 | 4.5 | 44 | 600 | 0.25 | 0.1 | 21 | +0.091 | 81F |
| **CMPZ5256B** | 28.50 | 30 | 31.50 | 4.2 | 49 | 600 | 0.25 | 0.1 | 23 | +0.091 | 81G |
| **CMPZ5257B** | 31.35 | 33 | 34.65 | 3.8 | 58 | 700 | 0.25 | 0.1 | 25 | +0.092 | 81H |
| **CMPZ5258B** | 34.20 | 36 | 37.80 | 3.4 | 70 | 700 | 0.25 | 0.1 | 27 | +0.093 | 81J |
| **CMPZ5259B** | 37.05 | 39 | 40.95 | 3.2 | 80 | 800 | 0.25 | 0.1 | 30 | +0.094 | 81K |
| **CMPZ5260B** | 40.85 | 43 | 45.15 | 3.0 | 93 | 900 | 0.25 | 0.1 | 33 | +0.095 | 81L |
| **CMPZ5261B** | 44.65 | 47 | 49.35 | 2.7 | 105 | 1000 | 0.25 | 0.1 | 36 | +0.095 | 81M |

All dimensions in inches (mm).




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