

Zener diode

●Applications

Constant voltage control

●Features

- 1) 2-pin ultra mini-mold type for high-density mounting .
- 2) High reliability.
- 3) Can be mounted automatically, using chip mounter.
- 4) We declare that the material of product compliance with RoHS requirements and Halogen Free.
- 5) Pb-Free package is available

●Construction

Silicon epitaxial planar

● ORDERING INFORMATION

| Device | Package | Shipping |
|----------------|---------|----------------|
| EDZxxBP Series | SOD-523 | 3000/Tape&Reel |

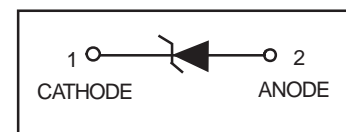
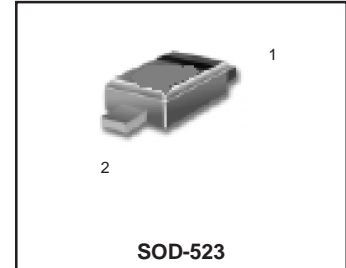
● Absolute maximum ratings

| Parameter | Symbol | Limits | Unit |
|-----------------------|-----------|-------------|------|
| Power dissipation | P_D | 300 | mW |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |
| Operating temperature | T_{opr} | -55 to +150 | °C |

● Type No.

| TYPE | TYPE NO. | TYPE | TYPE NO. |
|----------|----------|---------|----------|
| EDZ2.4BP | 22 | EDZ10BP | 05 |
| EDZ2.7BP | 32 | EDZ11BP | 15 |
| EDZ3.0BP | 42 | EDZ12BP | 25 |
| EDZ3.3BP | 52 | EDZ13BP | 35 |
| EDZ3.6BP | 62 | EDZ15BP | 45 |
| EDZ3.9BP | 72 | EDZ16BP | 55 |
| EDZ4.3BP | 82 | EDZ18BP | 65 |
| EDZ4.7BP | 92 | EDZ20BP | 75 |
| EDZ5.1BP | A2 | EDZ22BP | 85 |
| EDZ5.6BP | C2 | EDZ24BP | 95 |
| EDZ6.2BP | E2 | EDZ27BP | A 5 |
| EDZ6.8BP | F2 | EDZ30BP | C5 |
| EDZ7.5BP | H2 | EDZ33BP | E5 |
| EDZ8.2BP | J2 | EDZ36BP | F5 |
| EDZ9.1BP | L2 | | |

EDZxxBP Series



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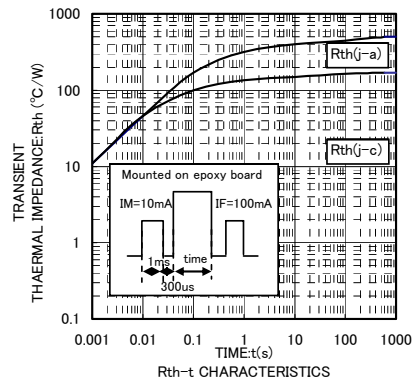
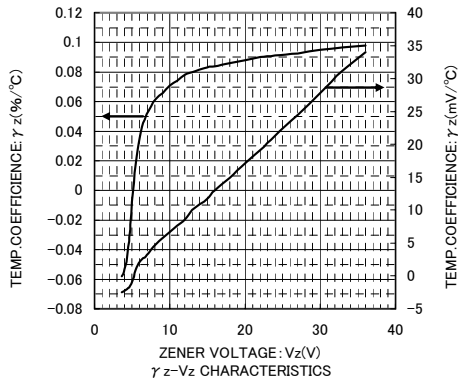
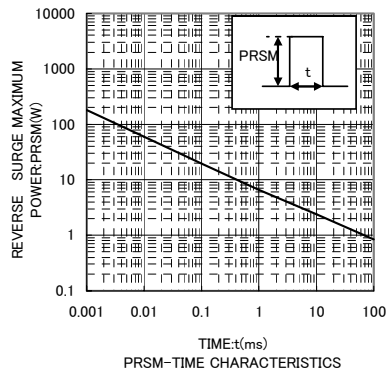
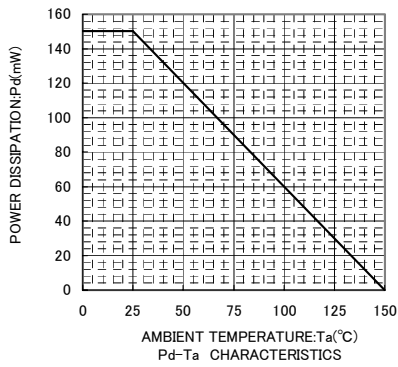
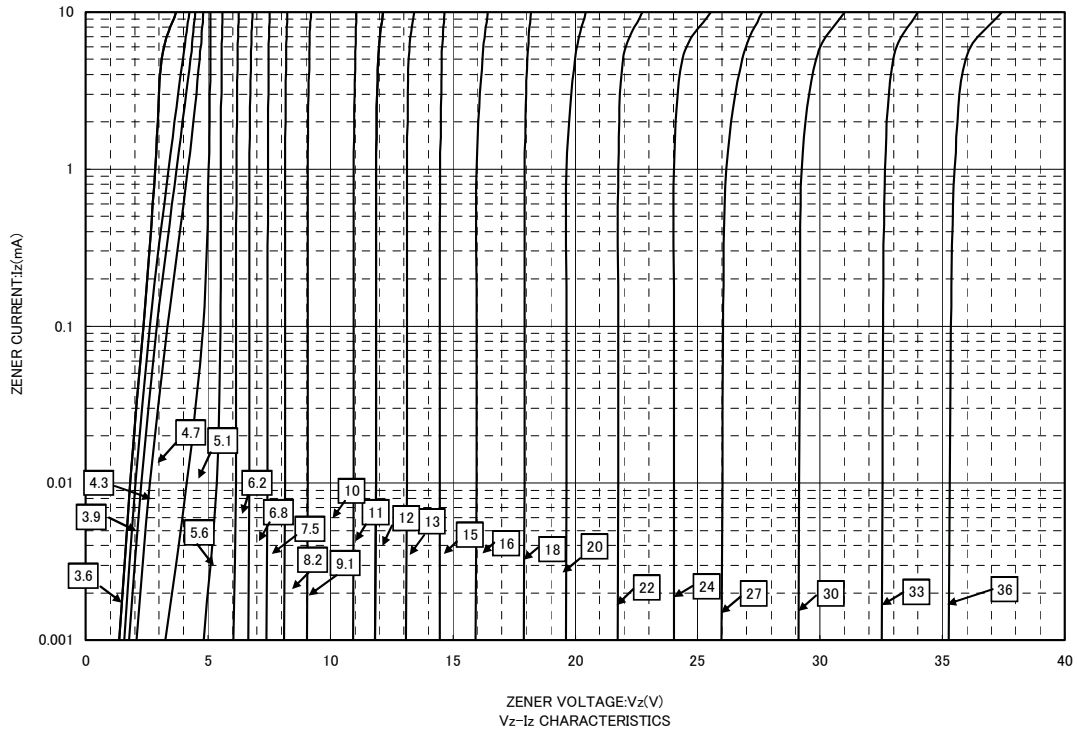
Electrical characteristics (Ta=25°C)

| TYP. | Symbol | | | | | | | | |
|----------|-----------------------|--------|--------|------------------------------|--------|-------------------------------------|--------|--------------------------|-------|
| | Zener voltage : Vz(V) | | | Operating resistance : Zz(Ω) | | Rising operating resistance : Zz(Ω) | | Reverse current : IR(μA) | |
| | MIN. | MAX. | Iz(mA) | MAX. | Iz(mA) | MAX. | Iz(mA) | MAX. | VR(V) |
| EDZ2.4BP | 2.43 | 2.63 | 5.0 | 100 | 5.0 | 1000.0 | 0.5 | 100 | 1.0 |
| EDZ2.7BP | 2.69 | 2.91 | 5.0 | 110 | 5.0 | 1000.0 | 0.5 | 100 | 1.0 |
| EDZ3.0BP | 3.01 | 3.22 | 5.0 | 120 | 5.0 | 1000.0 | 0.5 | 50 | 1.0 |
| EDZ3.3BP | 3.32 | 3.53 | 5.0 | 120 | 5.0 | 1000.0 | 0.5 | 20 | 1.0 |
| EDZ3.6BP | 3.600 | 3.845 | 5.0 | 100 | 5.0 | 1000.0 | 1.0 | 10.0 | 1.0 |
| EDZ3.9BP | 3.890 | 4.160 | 5.0 | 100 | 5.0 | 1000.0 | 1.0 | 5.0 | 1.0 |
| EDZ4.3BP | 4.170 | 4.430 | 5.0 | 100 | 5.0 | 1000.0 | 1.0 | 5.0 | 1.0 |
| EDZ4.7BP | 4.550 | 4.750 | 5.0 | 100 | 5.0 | 800.0 | 0.5 | 2.0 | 1.0 |
| EDZ5.1BP | 4.980 | 5.200 | 5.0 | 80 | 5.0 | 500.0 | 0.5 | 2.0 | 1.5 |
| EDZ5.6BP | 5.490 | 5.730 | 5.0 | 60 | 5.0 | 200.0 | 0.5 | 1.0 | 2.5 |
| EDZ6.2BP | 6.060 | 6.330 | 5.0 | 60 | 5.0 | 100.0 | 0.5 | 1.0 | 3.0 |
| EDZ6.8BP | 6.650 | 6.930 | 5.0 | 40 | 5.0 | 60.0 | 0.5 | 0.5 | 3.5 |
| EDZ7.5BP | 7.280 | 7.600 | 5.0 | 30 | 5.0 | 60.0 | 0.5 | 0.5 | 4.0 |
| EDZ8.2BP | 8.020 | 8.360 | 5.0 | 30 | 5.0 | 60.0 | 0.5 | 0.5 | 5.0 |
| EDZ9.1BP | 8.850 | 9.230 | 5.0 | 30 | 5.0 | 60.0 | 0.5 | 0.5 | 6.0 |
| EDZ10BP | 9.770 | 10.210 | 5.0 | 30 | 5.0 | 60.0 | 0.5 | 0.1 | 7.0 |
| EDZ11BP | 10.760 | 11.220 | 5.0 | 30 | 5.0 | 60.0 | 0.5 | 0.1 | 8.0 |
| EDZ12BP | 11.740 | 12.240 | 5.0 | 30 | 5.0 | 80.0 | 0.5 | 0.1 | 9.0 |
| EDZ13BP | 12.910 | 13.490 | 5.0 | 37 | 5.0 | 80.0 | 0.5 | 0.1 | 10.0 |
| EDZ15BP | 14.340 | 14.980 | 5.0 | 42 | 5.0 | 80.0 | 0.5 | 0.1 | 11.0 |
| EDZ16BP | 15.850 | 16.510 | 5.0 | 50 | 5.0 | 80.0 | 0.5 | 0.1 | 12.0 |
| EDZ18BP | 17.560 | 18.350 | 5.0 | 65 | 5.0 | 80.0 | 0.5 | 0.1 | 13.0 |
| EDZ20BP | 19.520 | 20.390 | 5.0 | 85 | 5.0 | 100.0 | 0.5 | 0.1 | 15.0 |
| EDZ22BP | 21.540 | 22.470 | 5.0 | 100 | 5.0 | 100.0 | 0.5 | 0.1 | 17.0 |
| EDZ24BP | 23.720 | 24.780 | 5.0 | 120 | 5.0 | 120.0 | 0.5 | 0.1 | 19.0 |
| EDZ27BP | 26.190 | 27.530 | 2.0 | 150 | 2.0 | 150.0 | 0.5 | 0.1 | 21.0 |
| EDZ30BP | 29.190 | 30.690 | 2.0 | 200 | 2.0 | 200.0 | 0.5 | 0.1 | 23.0 |
| EDZ33BP | 32.150 | 33.790 | 2.0 | 250 | 2.0 | 250.0 | 0.5 | 0.1 | 25.0 |
| EDZ36BP | 35.070 | 36.870 | 2.0 | 300 | 2.0 | 300.0 | 0.5 | 0.1 | 27.0 |

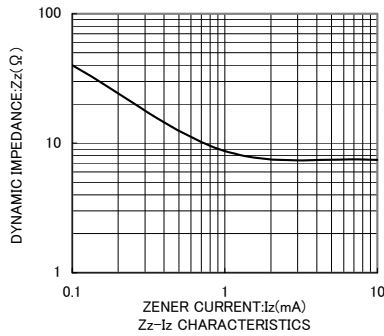
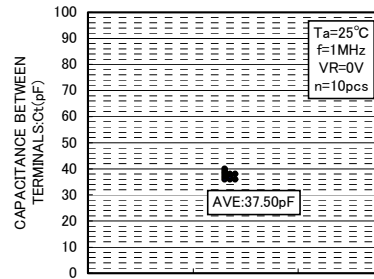
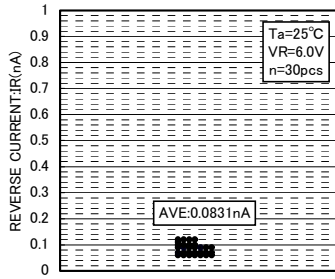
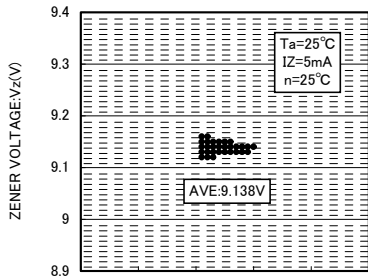
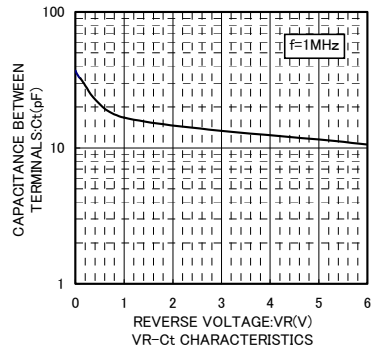
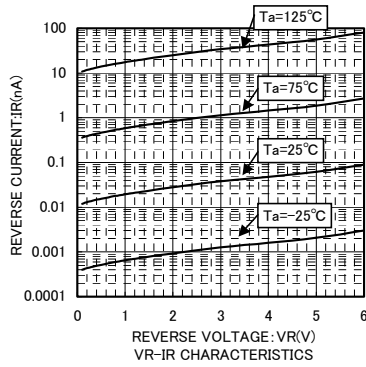
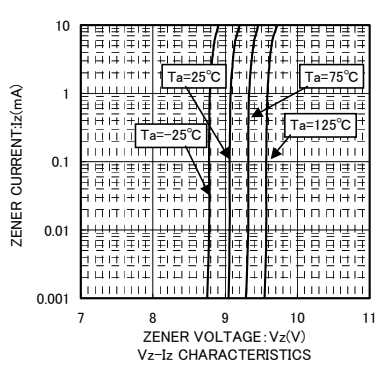


EDZxxBP Series

●Electrical characteristic curves (Ta=25°C)

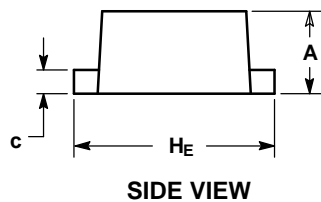
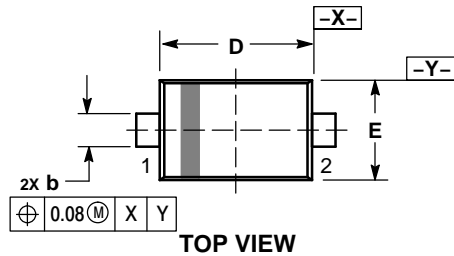


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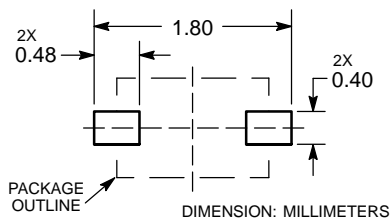


EDZxxBP Series

SC-79/SOD-523



RECOMMENDED SOLDERING FOOTPRINT*



NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

| DIM | MILLIMETERS | | |
|----------------|-------------|------|------|
| | MIN | NOM | MAX |
| A | 0.50 | 0.60 | 0.70 |
| b | 0.25 | 0.30 | 0.35 |
| c | 0.07 | 0.14 | 0.20 |
| D | 1.10 | 1.20 | 1.30 |
| E | 0.70 | 0.80 | 0.90 |
| H _E | 1.50 | 1.60 | 1.70 |
| L | 0.30 REF | | |
| L2 | 0.15 | 0.20 | 0.25 |

