

Zener diode

CDZ6.8B

●Applications

Constant voltage control

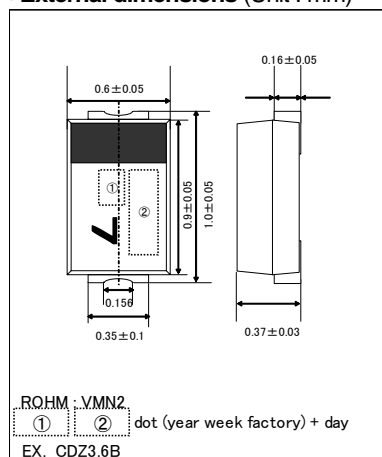
●Features

- 1) 2-pin ultra mini-mold type for high-density mounting (VMN2).
- 2) High reliability.
- 3) Can be mounted automatically, using chip mounter.

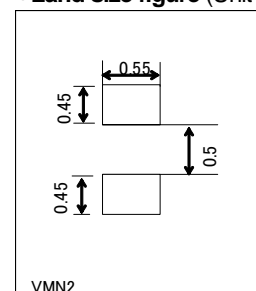
●Construction

Silicon epitaxial planar

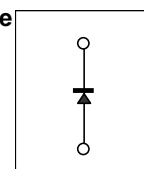
●External dimensions (Unit : mm)



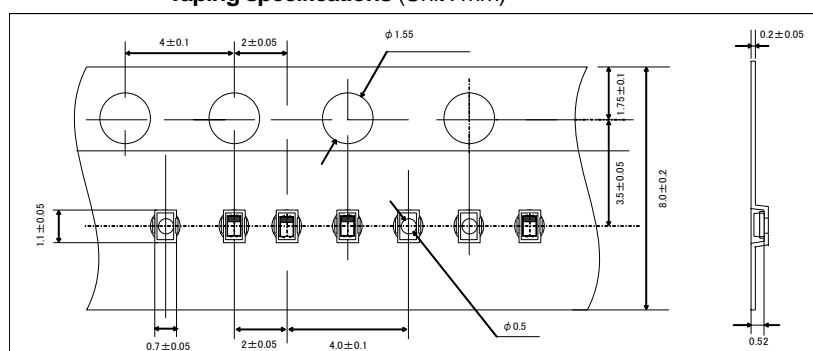
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|-----------------------|------------------|-------------|------|
| Power dissipation | P | 100 | mW |
| Junction temperature | T _j | 150 | °C |
| Storage temperature | T _{stg} | -55 to +150 | °C |
| Operating temperature | T _{opr} | -55 to +150 | °C |

Diodes

●Electrical characteristics (Ta=25°C)

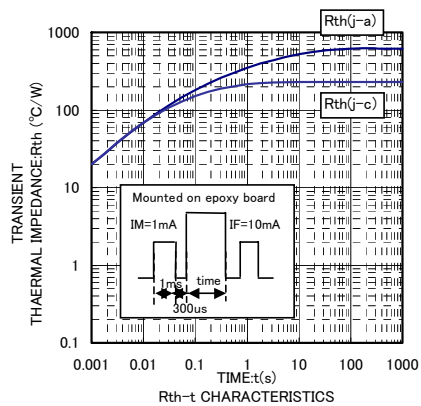
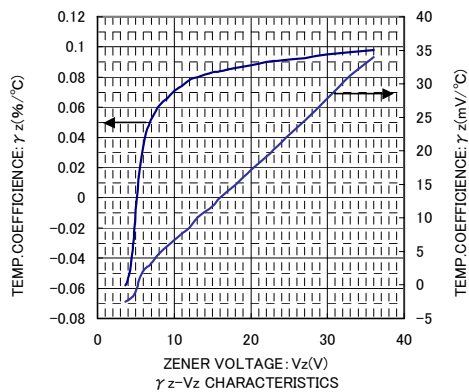
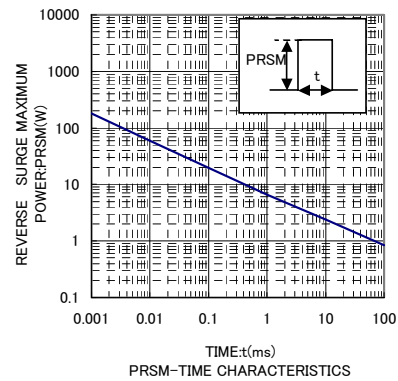
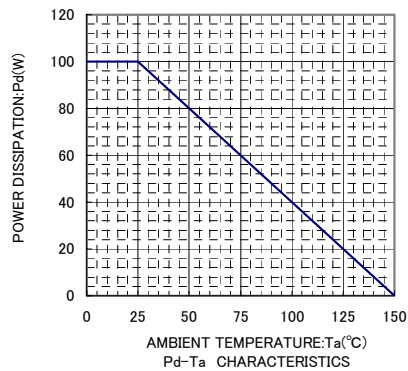
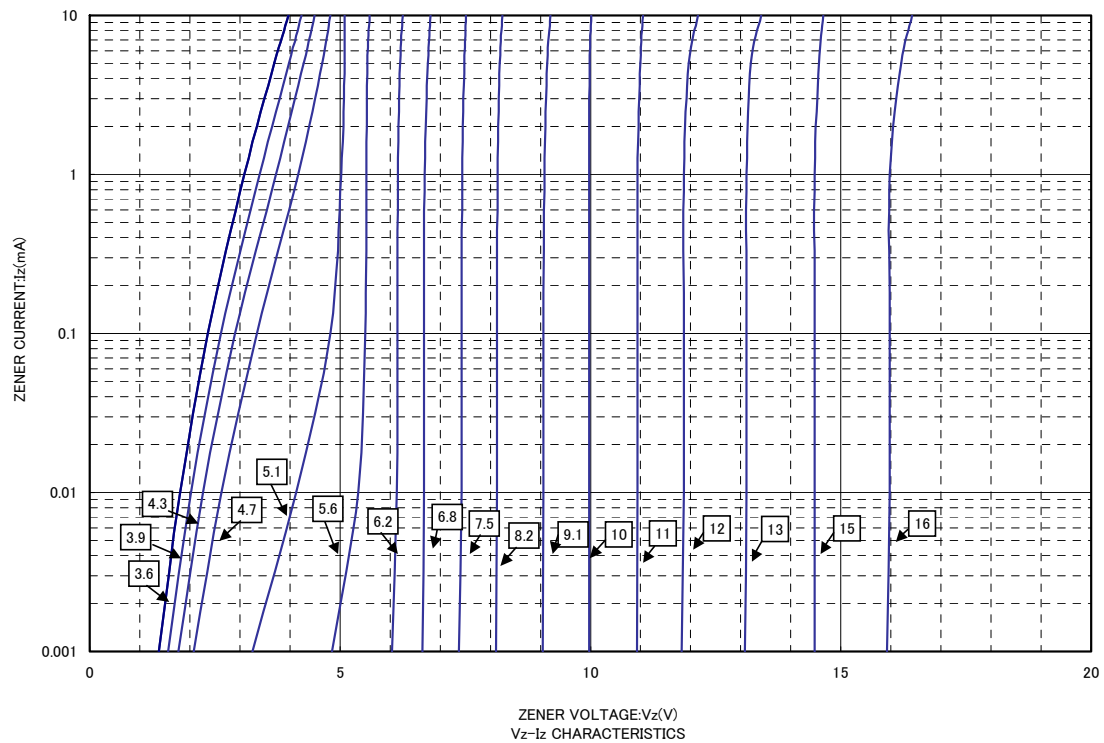
| TYP. | Symbol | | | | | | | | |
|----------|-----------------------|--------|--------|------------------------------|--------|-------------------------------------|--------|--------------------------|-------|
| | Zener voltage : Vz(V) | | | Operating resistance : Zz(Ω) | | Rising operating resistance : Zz(Ω) | | Reverse current : IR(μA) | |
| | MIN. | MAX. | Iz(mA) | MAX. | Iz(mA) | MAX. | Iz(mA) | MAX. | VR(V) |
| CDZ 3.6B | 3.600 | 3.845 | 5.0 | 100 | 5.0 | 1000.0 | 1.0 | 10.0 | 1.0 |
| CDZ 3.9B | 3.890 | 4.160 | 5.0 | 100 | 5.0 | 1000.0 | 1.0 | 5.0 | 1.0 |
| CDZ 4.3B | 4.170 | 4.430 | 5.0 | 100 | 5.0 | 1000.0 | 1.0 | 5.0 | 1.0 |
| CDZ 4.7B | 4.550 | 4.750 | 5.0 | 100 | 5.0 | 800.0 | 0.5 | 2.0 | 1.0 |
| CDZ 5.1B | 4.980 | 5.200 | 5.0 | 80 | 5.0 | 500.0 | 0.5 | 2.0 | 1.5 |
| CDZ 5.6B | 5.490 | 5.730 | 5.0 | 60 | 5.0 | 200.0 | 0.5 | 1.0 | 2.5 |
| CDZ 6.2B | 6.060 | 6.330 | 5.0 | 60 | 5.0 | 100.0 | 0.5 | 1.0 | 3.0 |
| CDZ 6.8B | 6.650 | 6.930 | 5.0 | 40 | 5.0 | 60.0 | 0.5 | 0.5 | 3.5 |
| CDZ 7.5B | 7.280 | 7.600 | 5.0 | 30 | 5.0 | 60.0 | 0.5 | 0.5 | 4.0 |
| CDZ 8.2B | 8.020 | 8.360 | 5.0 | 30 | 5.0 | 60.0 | 0.5 | 0.5 | 5.0 |
| CDZ 9.1B | 8.850 | 9.230 | 5.0 | 30 | 5.0 | 60.0 | 0.5 | 0.5 | 6.0 |
| CDZ 10B | 9.770 | 10.210 | 5.0 | 30 | 5.0 | 60.0 | 0.5 | 0.1 | 7.0 |
| CDZ 11B | 10.760 | 11.220 | 5.0 | 30 | 5.0 | 60.0 | 0.5 | 0.1 | 8.0 |
| CDZ 12B | 11.740 | 12.240 | 5.0 | 30 | 5.0 | 80.0 | 0.5 | 0.1 | 9.0 |
| CDZ 13B | 12.910 | 13.490 | 5.0 | 37 | 5.0 | 80.0 | 0.5 | 0.1 | 10.0 |
| CDZ 15B | 14.340 | 14.980 | 5.0 | 42 | 5.0 | 80.0 | 0.5 | 0.1 | 11.0 |
| CDZ 16B | 15.850 | 16.510 | 5.0 | 50 | 5.0 | 80.0 | 0.5 | 0.1 | 12.0 |

●Type No.

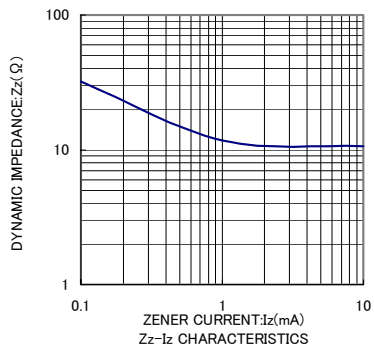
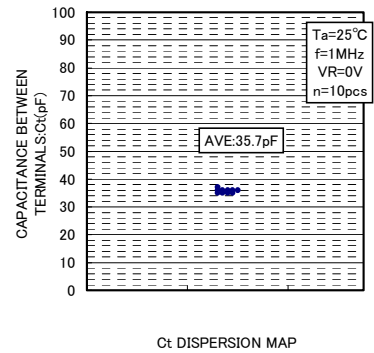
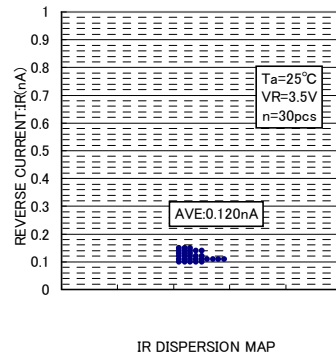
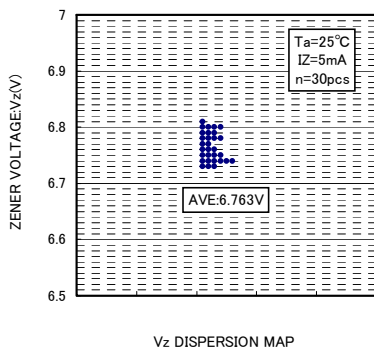
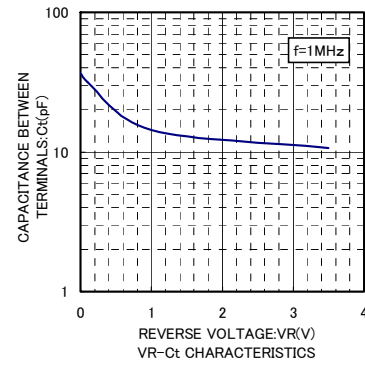
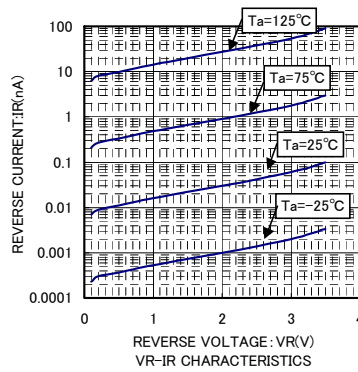
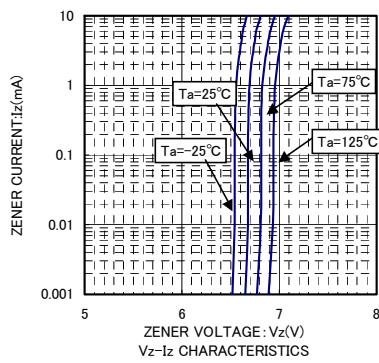
| TYPE | TYPE NO. | TYPE | TYPE NO. |
|----------|----------|----------|----------|
| CDZ 3.6B | <u>7</u> | CDZ 8.2B | H |
| CDZ 3.9B | <u>1</u> | CDZ 9.1B | J |
| CDZ 4.3B | <u>2</u> | CDZ 10B | K |
| CDZ 4.7B | <u>3</u> | CDZ 11B | L |
| CDZ 5.1B | <u>5</u> | CDZ 12B | N |
| CDZ 5.6B | <u>7</u> | CDZ 13B | S |
| CDZ 6.2B | C | CDZ 15B | C |
| CDZ 6.8B | E | CDZ 16B | E |
| CDZ 7.5B | F | | |

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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