

Zener diode

KDZ6.2B

●Applications

Voltage regulation

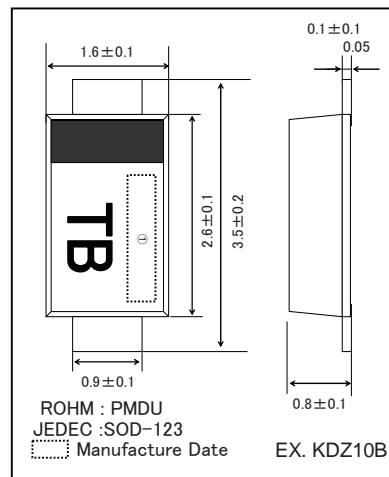
●Features

- 1) Small power mold type. (PMDU)
- 2) High ESD tolerance

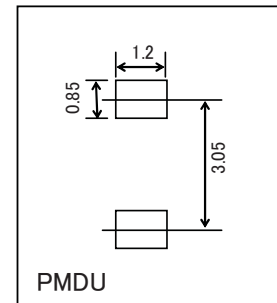
●Construction

Silicon epitaxial planar

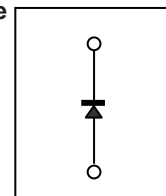
●Dimensions (Unit : mm)



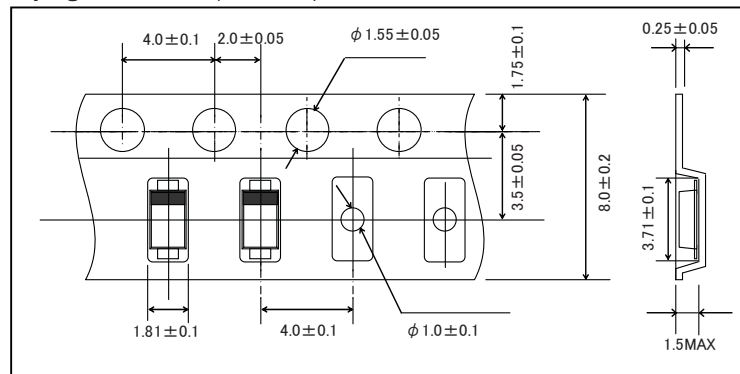
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings ($T_a=25^\circ\text{C}$)

| Parameter | Symbol | Limits | Unit |
|----------------------|-----------|-------------|------------------|
| Power dissipation | P | 1000 | mW |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

Diodes

●Electrical characteristics (Ta=25°C)

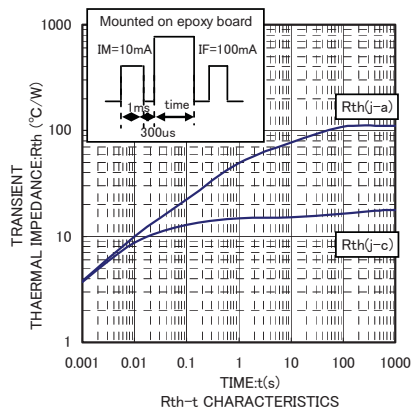
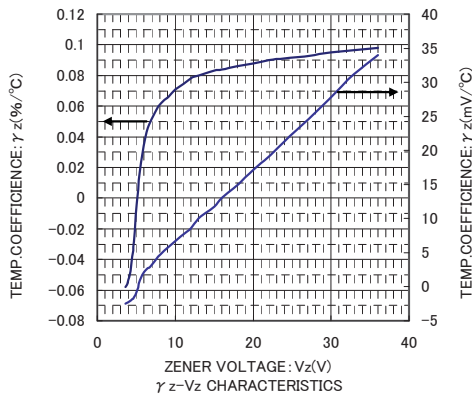
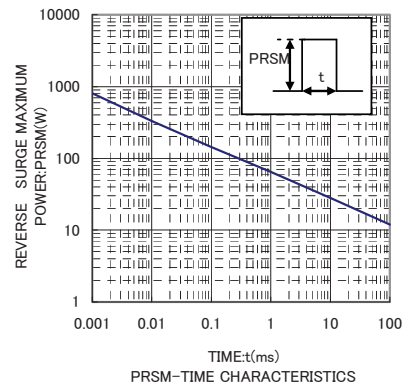
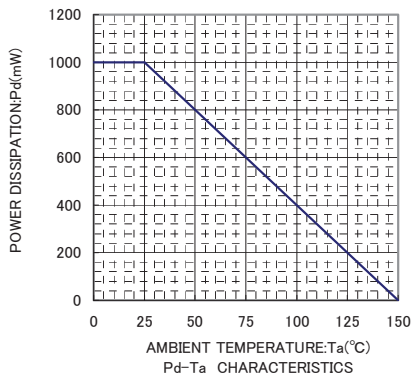
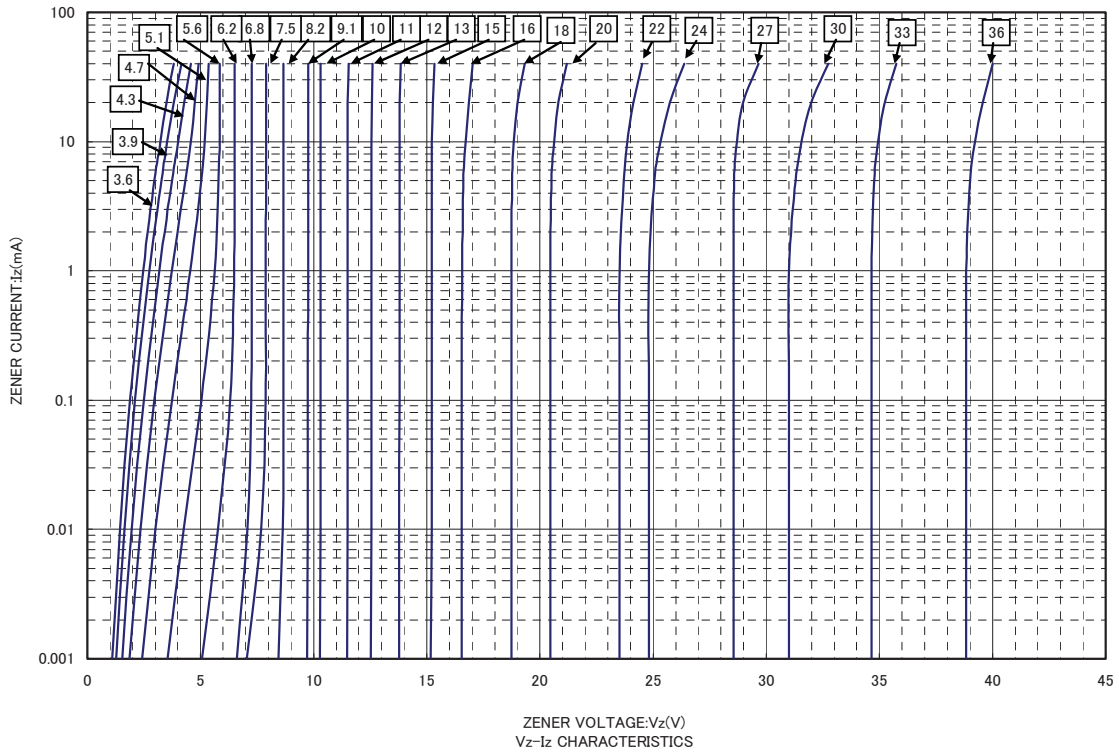
| TYP. | Symbol | | | | | |
|----------|----------------------|--------|--------|--------|-------------------------|-------|
| | Zener voltage: Vz(V) | | | | Reverse current: IR(μA) | |
| | MIN. | TYP. | MAX. | Iz(mA) | MAX. | VR(V) |
| KDZ 3.6B | 3.600 | 3.813 | 4.000 | 40 | 60 | 1.0 |
| KDZ 3.9B | 3.900 | 4.136 | 4.400 | 40 | 40 | 1.0 |
| KDZ 4.3B | 4.300 | 4.572 | 4.800 | 40 | 20 | 1.0 |
| KDZ 4.7B | 4.700 | 4.924 | 5.200 | 40 | 20 | 1.0 |
| KDZ 5.1B | 5.100 | 5.368 | 5.700 | 40 | 20 | 1.0 |
| KDZ 5.6B | 5.600 | 5.856 | 6.300 | 40 | 20 | 1.5 |
| KDZ 6.2B | 6.200 | 6.509 | 7.000 | 40 | 20 | 3.0 |
| KDZ 6.8B | 6.800 | 7.280 | 7.700 | 40 | 20 | 3.5 |
| KDZ 7.5B | 7.500 | 7.889 | 8.400 | 40 | 20 | 4.0 |
| KDZ 8.2B | 8.200 | 8.655 | 9.300 | 40 | 20 | 5.0 |
| KDZ 9.1B | 9.100 | 9.747 | 10.200 | 40 | 20 | 6.0 |
| KDZ 10B | 10.000 | 10.310 | 11.200 | 40 | 10 | 7.0 |
| KDZ 11B | 11.000 | 11.510 | 12.300 | 20 | 10 | 8.0 |
| KDZ 12B | 12.000 | 12.500 | 13.500 | 20 | 10 | 9.0 |
| KDZ 13B | 13.300 | 13.820 | 15.000 | 20 | 10 | 10.0 |
| KDZ 15B | 14.700 | 15.350 | 16.500 | 20 | 10 | 11.0 |
| KDZ 16B | 16.200 | 16.860 | 18.300 | 20 | 10 | 12.0 |
| KDZ 18B | 18.000 | 19.000 | 20.300 | 20 | 10 | 13.0 |
| KDZ 20B | 20.000 | 20.820 | 22.400 | 20 | 10 | 15.0 |
| KDZ 22B | 22.000 | 23.850 | 24.500 | 10 | 10 | 17.0 |
| KDZ 24B | 24.000 | 25.310 | 27.600 | 10 | 10 | 19.0 |
| KDZ 27B | 27.000 | 28.700 | 30.800 | 10 | 10 | 21.0 |
| KDZ 30B | 30.000 | 31.570 | 34.000 | 10 | 10 | 23.0 |
| KDZ 33B | 33.000 | 34.950 | 37.000 | 10 | 10 | 25.0 |
| KDZ 36B | 36.000 | 39.240 | 40.000 | 10 | 10 | 27.0 |

※The Zener voltage (Vz) is measured 40ms after power is supplied.

●Marking (TYPE NO.)

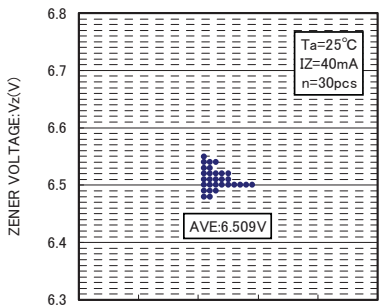
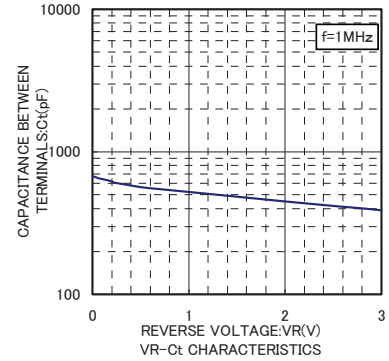
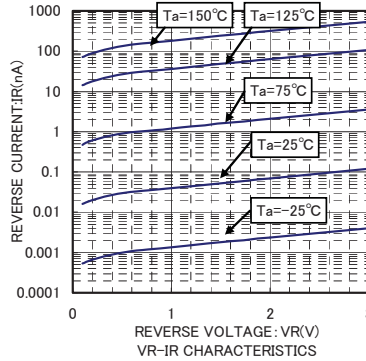
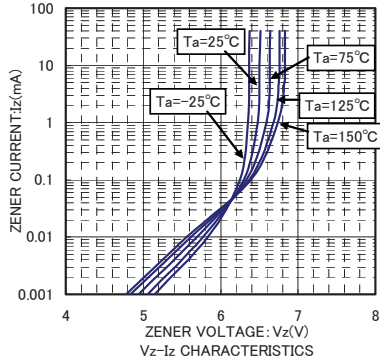
| TYPE | TYPE NO. | TYPE | TYPE NO. |
|----------|----------|---------|----------|
| KDZ 3.6B | GB | KDZ 12B | VB |
| KDZ 3.9B | HB | KDZ 13B | WB |
| KDZ 4.3B | JB | KDZ 15B | XB |
| KDZ 4.7B | KB | KDZ 16B | YB |
| KDZ 5.1B | LB | KDZ 18B | ZB |
| KDZ 5.6B | MB | KDZ 20B | AD |
| KDZ 6.2B | NB | KDZ 22B | BD |
| KDZ 6.8B | PB | KDZ 24B | CD |
| KDZ 7.5B | QB | KDZ 27B | DD |
| KDZ 8.2B | RB | KDZ 30B | ED |
| KDZ 9.1B | SB | KDZ 33B | FD |
| KDZ 10B | TB | KDZ 36B | GD |
| KDZ 11B | UB | | |

Diodes

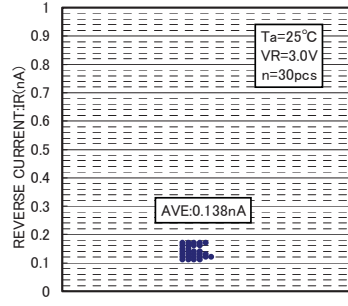


Diodes

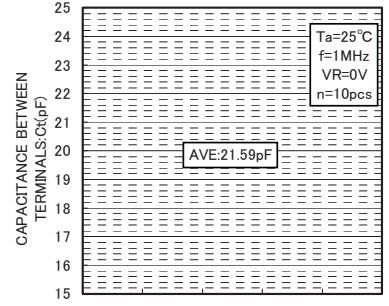
●Electrical characteristic curves (Ta=25°C)



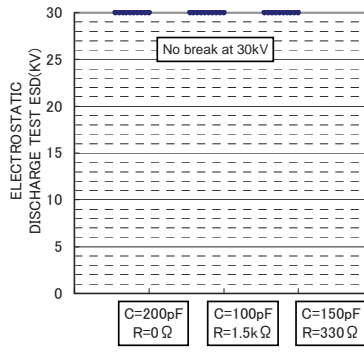
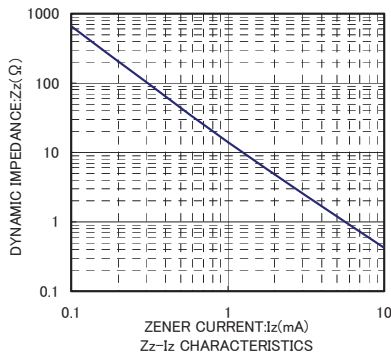
V_z DISPERSION MAP



I_R DISPERSION MAP



C_t DISPERSION MAP



ESD DISPERSION MAP

Notes

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