

Zener diode

MTZJ39B

●Applications

Constant voltage control

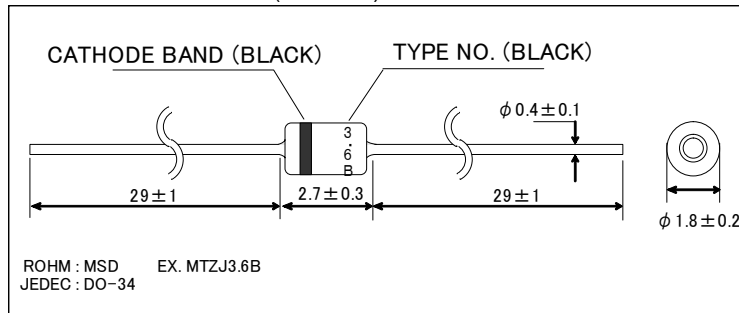
●Features

- 1) Glass sealed envelope. (MSD)
- 2) High reliability.

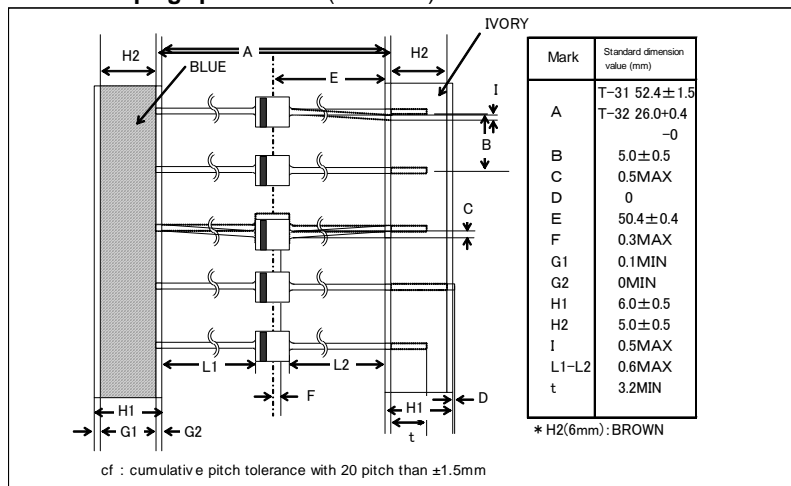
●Construction

Silicon planer

●External dimensions (Unit : mm)



●Taping specification (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|----------------------|------------------|-------------|------|
| Power dissipation | P | 500 | mW |
| Junction temperature | T _J | 175 | °C |
| Storage temperature | T _{stg} | -65 to +175 | °C |

Diodes

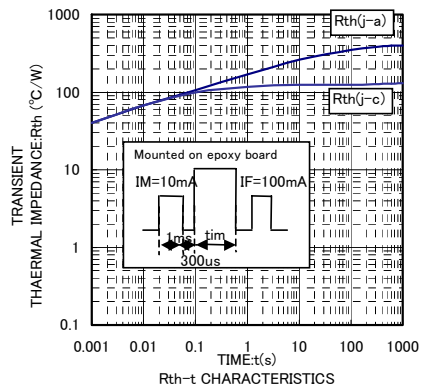
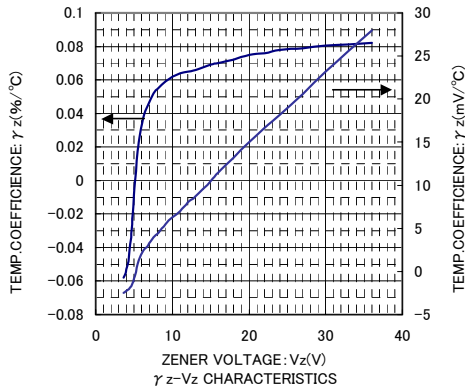
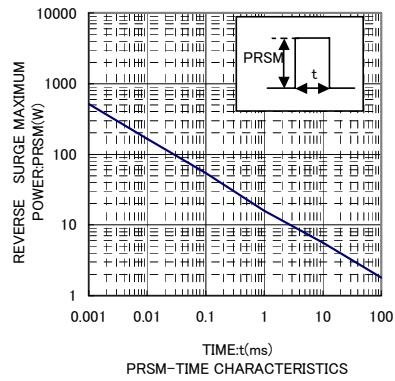
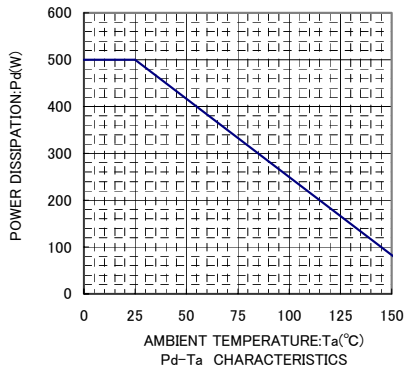
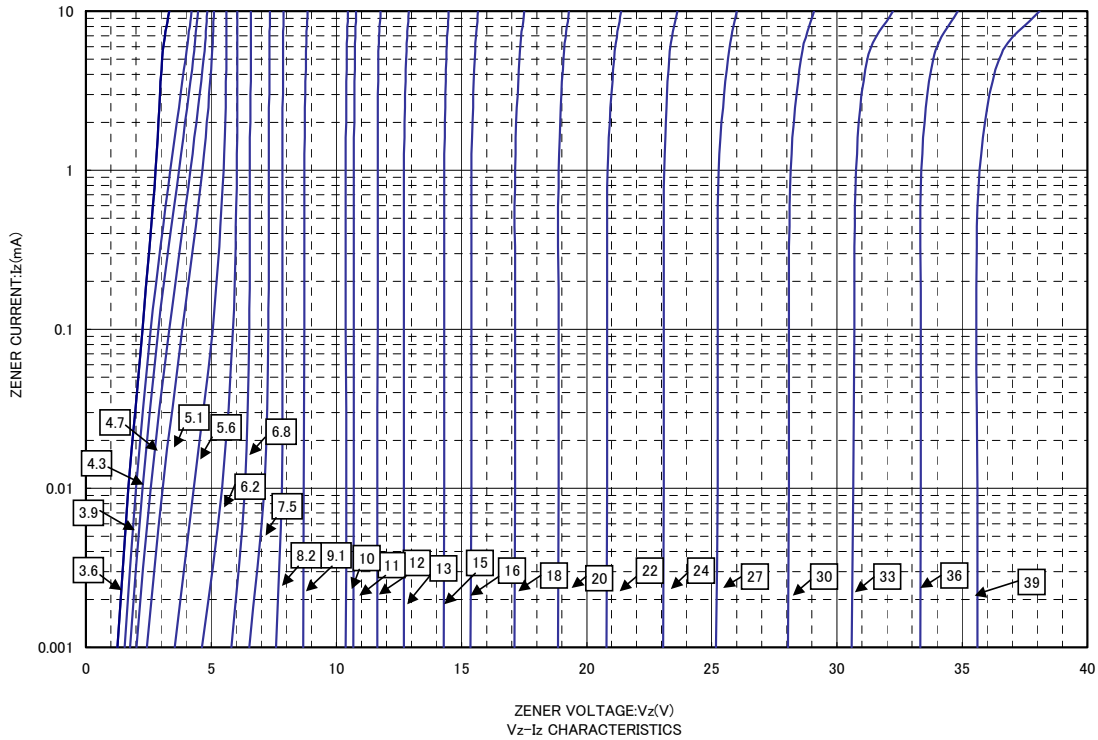
●Electrical characteristics curves (Ta=25°C)

| 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) |
| MTZJ 3.6B | 3.600 | 3.845 | 5.0 | 100 | 5.0 | 1000 | 1.0 | 10.0 | 1.0 |
| MTZJ 3.9B | 3.890 | 4.160 | 5.0 | 100 | 5.0 | 1000 | 1.0 | 5.0 | 1.0 |
| MTZJ 4.3B | 4.170 | 4.430 | 5.0 | 100 | 5.0 | 1000 | 1.0 | 5.0 | 1.0 |
| MTZJ 4.7B | 4.550 | 4.800 | 5.0 | 80 | 5.0 | 900 | 0.5 | 5.0 | 1.0 |
| MTZJ 5.1B | 4.940 | 5.200 | 5.0 | 70 | 5.0 | 1200 | 0.5 | 5.0 | 1.5 |
| MTZJ 5.6B | 5.450 | 5.730 | 5.0 | 40 | 5.0 | 900 | 0.5 | 5.0 | 2.5 |
| MTZJ 6.2B | 5.960 | 6.270 | 5.0 | 30 | 5.0 | 500 | 0.5 | 5.0 | 3.0 |
| MTZJ 6.8B | 6.490 | 6.830 | 5.0 | 20 | 5.0 | 150 | 0.5 | 2.0 | 3.5 |
| MTZJ 7.5B | 7.070 | 7.450 | 5.0 | 20 | 5.0 | 120 | 0.5 | 0.5 | 4.0 |
| MTZJ 8.2B | 7.780 | 8.190 | 5.0 | 20 | 5.0 | 120 | 0.5 | 0.5 | 5.0 |
| MTZJ 9.1B | 8.570 | 9.010 | 5.0 | 20 | 5.0 | 120 | 0.5 | 0.5 | 6.0 |
| MTZJ 10B | 9.410 | 9.900 | 5.0 | 20 | 5.0 | 120 | 0.5 | 0.2 | 7.0 |
| MTZJ 11B | 10.500 | 11.050 | 5.0 | 20 | 5.0 | 120 | 0.5 | 0.2 | 8.0 |
| MTZJ 12B | 11.440 | 12.030 | 5.0 | 25 | 5.0 | 110 | 0.5 | 0.2 | 9.0 |
| MTZJ 13B | 12.550 | 13.210 | 5.0 | 25 | 5.0 | 110 | 0.5 | 0.2 | 10.0 |
| MTZJ 15B | 13.890 | 14.620 | 5.0 | 25 | 5.0 | 110 | 0.5 | 0.2 | 11.0 |
| MTZJ 16B | 15.250 | 16.040 | 5.0 | 25 | 5.0 | 150 | 0.5 | 0.2 | 12.0 |
| MTZJ 18B | 16.820 | 17.700 | 5.0 | 30 | 5.0 | 150 | 0.5 | 0.2 | 13.0 |
| MTZJ 20B | 18.630 | 19.590 | 5.0 | 30 | 5.0 | 200 | 0.5 | 0.2 | 15.0 |
| MTZJ 22B | 20.640 | 21.710 | 5.0 | 30 | 5.0 | 200 | 0.5 | 0.2 | 17.0 |
| MTZJ 24B | 22.610 | 23.770 | 5.0 | 35 | 5.0 | 200 | 0.5 | 0.2 | 19.0 |
| MTZJ 27B | 24.970 | 26.260 | 5.0 | 45 | 5.0 | 250 | 0.5 | 0.2 | 21.0 |
| MTZJ 30B | 27.700 | 29.130 | 5.0 | 55 | 5.0 | 250 | 0.5 | 0.2 | 23.0 |
| MTZJ 33B | 30.320 | 31.880 | 5.0 | 65 | 5.0 | 250 | 0.5 | 0.2 | 25.0 |
| MTZJ 36B | 32.790 | 34.490 | 5.0 | 75 | 5.0 | 250 | 0.5 | 0.2 | 27.0 |
| MTZJ 39B | 35.360 | 37.190 | 5.0 | 85 | 5.0 | 250 | 0.5 | 0.2 | 30.0 |

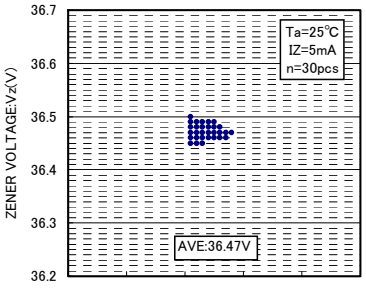
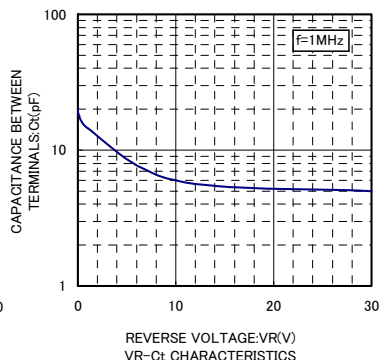
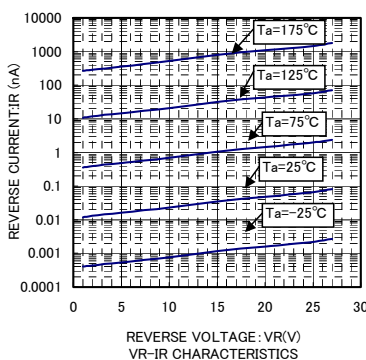
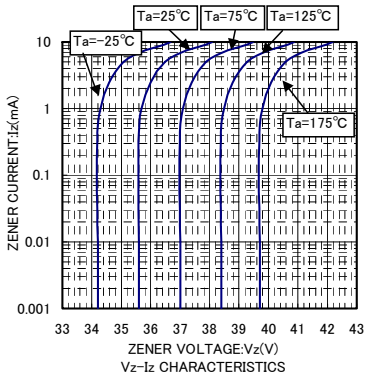
●Type NO.

| TYPE | TYPE NO. | TYPE | TYPE NO. |
|-----------|----------|----------|----------|
| MTZJ 3.6B | 3.6B | MTZJ 12B | 12B |
| MTZJ 3.9B | 3.9B | MTZJ 13B | 13B |
| MTZJ 4.3B | 4.3B | MTZJ 15B | 15B |
| MTZJ 4.7B | 4.7B | MTZJ 16B | 16B |
| MTZJ 5.1B | 5.1B | MTZJ 18B | 18B |
| MTZJ 5.6B | 5.6B | MTZJ 20B | 20B |
| MTZJ 6.2B | 6.2B | MTZJ 22B | 22B |
| MTZJ 6.8B | 6.8B | MTZJ 24B | 24B |
| MTZJ 7.5B | 7.5B | MTZJ 27B | 27B |
| MTZJ 8.2B | 8.2B | MTZJ 30B | 30B |
| MTZJ 9.1B | 9.1B | MTZJ 33B | 33B |
| MTZJ 10B | 10B | MTZJ 36B | 36B |
| MTZJ 11B | 11B | MTZJ 39B | 39B |

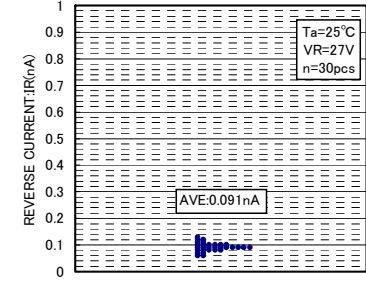
Diodes



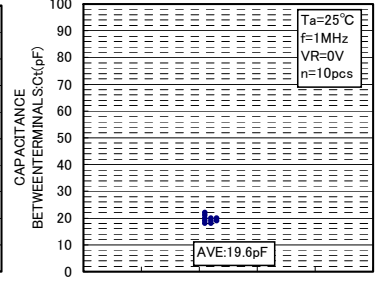
Diodes



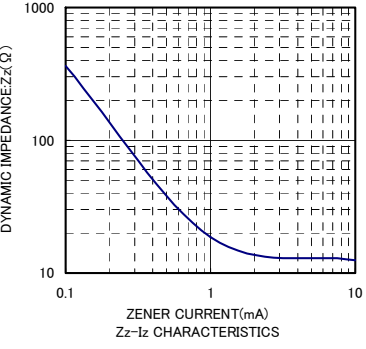
Vz DISRESION MAP



IR DISRESION MAP



Cj DISRESION MAP



Zz-Iz CHARACTERISTICS

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