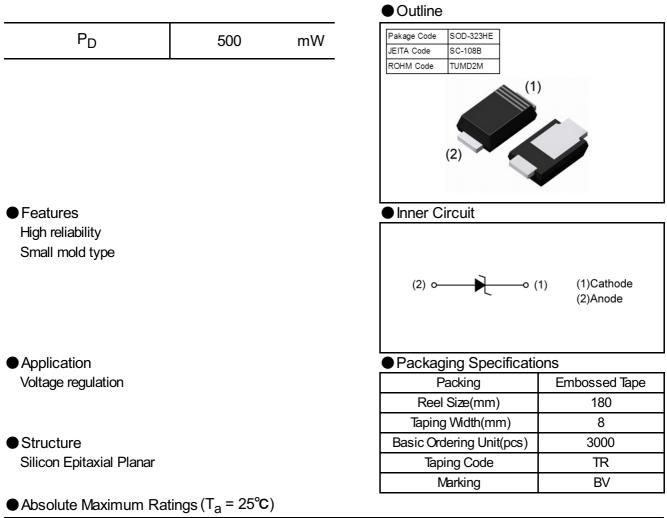


Data sheet



| Parameter | Symbol | Limits | Unit |
|----------------------|------------------|-----------|------|
| Power dissipation | PD | 500 | mW |
| Junction temperature | Tj | 150 | °C |
| Storage temperature | T _{stg} | -55 ~ 150 | C° |

TFZV Series

Data sheet

• Characteristic ($T_a = 25^{\circ}C$)

| | Symbol | | | | | | |
|-----------|--------|--------------|---------------------|----------------------------------|---------------------|-------------------------------------|--------------------|
| P/N | Zen | er Voltage:V | _Z (V) | Dynamic Impedance: $Z_Z(\Omega)$ | | Reverse Current:I _R (µA) | |
| | MIN. | MAX. | l _z (mA) | MAX. | l _z (mA) | MAX. | V _R (V) |
| TFZV 2.0B | 2.020 | 2.200 | 20 | 140 | 20 | 120 | 0.5 |
| TFZV 2.2B | 2.220 | 2.410 | 20 | 120 | 20 | 120 | 0.7 |
| TFZV 2.4B | 2.430 | 2.630 | 20 | 100 | 20 | 120 | 1.0 |
| TFZV 2.7B | 2.690 | 2.910 | 20 | 100 | 20 | 100 | 1.0 |
| TFZV 3.0B | 3.010 | 3.220 | 20 | 80 | 20 | 50 | 1.0 |
| TFZV 3.3B | 3.320 | 3.530 | 20 | 70 | 20 | 20 | 1.0 |
| TFZV 3.6B | 3.600 | 3.845 | 20 | 60 | 20 | 10 | 1.0 |
| TFZV 3.9B | 3.890 | 4.160 | 20 | 50 | 20 | 5 | 1.0 |
| TFZV 4.3B | 4.170 | 4.430 | 20 | 40 | 20 | 5 | 1.0 |
| TFZV 4.7B | 4.550 | 4.800 | 20 | 25 | 20 | 5 | 1.0 |
| TFZV 5.1B | 4.940 | 5.200 | 20 | 20 | 20 | 5 | 1.5 |
| TFZV 5.6B | 5.450 | 5.730 | 20 | 13 | 20 | 5 | 2.5 |
| TFZV 6.2B | 5.960 | 6.270 | 20 | 10 | 20 | 5 | 3.0 |
| TFZV 6.8B | 6.490 | 6.830 | 20 | 8 | 20 | 2 | 3.5 |
| TFZV 7.5B | 7.070 | 7.450 | 20 | 8 | 20 | 0.5 | 4.0 |
| TFZV 8.2B | 7.780 | 8.190 | 20 | 8 | 20 | 0.5 | 5.0 |
| TFZV 9.1B | 8.570 | 9.010 | 20 | 8 | 20 | 0.5 | 6.0 |
| TFZV 10B | 9.410 | 9.900 | 20 | 8 | 20 | 0.2 | 7.0 |
| TFZV 11B | 10.500 | 11.050 | 10 | 10 | 10 | 0.2 | 8.0 |
| TFZV 12B | 11.440 | 12.030 | 10 | 12 | 10 | 0.2 | 9.0 |
| TFZV 13B | 12.550 | 13.210 | 10 | 14 | 10 | 0.2 | 10 |
| TFZV 15B | 13.890 | 14.620 | 10 | 16 | 10 | 0.2 | 11 |
| TFZV 16B | 15.250 | 16.040 | 10 | 18 | 10 | 0.2 | 12 |
| TFZV 18B | 16.820 | 17.700 | 10 | 23 | 10 | 0.2 | 13 |
| TFZV 20B | 18.630 | 19.590 | 10 | 28 | 10 | 0.2 | 15 |
| TFZV 22B | 20.640 | 21.710 | 5 | 30 | 5 | 0.2 | 17 |
| TFZV 24B | 22.610 | 23.770 | 5 | 35 | 5 | 0.2 | 19 |
| TFZV 27B | 24.970 | 26.260 | 5 | 45 | 5 | 0.2 | 21 |
| TFZV 30B | 27.700 | 29.130 | 5 | 55 | 5 | 0.2 | 23 |
| TFZV 33B | 30.320 | 31.880 | 5 | 65 | 5 | 0.2 | 25 |
| TFZV 36B | 32.790 | 34.490 | 5 | 75 | 5 | 0.2 | 27 |
| TFZV 39B | 35.360 | 37.190 | 5 | 85 | 5 | 0.2 | 30 |

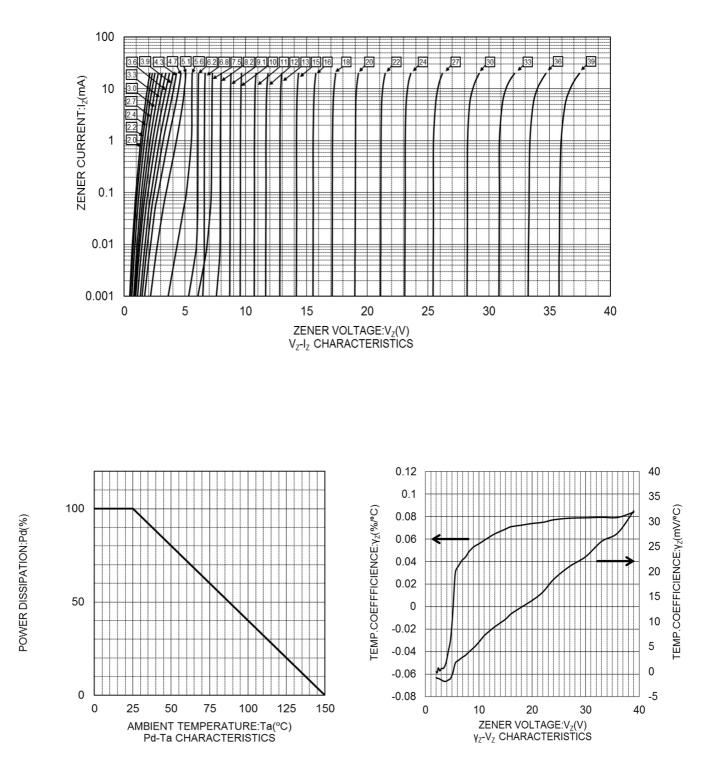
Vz test time is 40ms

Marking

| P/N | Marking | P/N | Marking |
|-----------|---------|-----------|---------|
| TFZV 2.0B | BO | TFZV 9.1B | BG |
| TFZV 2.2B | B1 | TFZV 10B | BH |
| TFZV 2.4B | B2 | TFZV 11B | BI |
| TFZV 2.7B | B3 | TFZV 12B | BJ |
| TFZV 3.0B | B4 | TFZV 13B | BK |
| TFZV 3.3B | B5 | TFZV 15B | BL |
| TFZV 3.6B | B6 | TFZV 16B | BM |
| TFZV 3.9B | B7 | TFZV 18B | BN |
| TFZV 4.3B | B8 | TFZV 20B | BO |
| TFZV 4.7B | B9 | TFZV 22B | BP |
| TFZV 5.1B | BA | TFZV 24B | BQ |
| TFZV 5.6B | BB | TFZV 27B | BR |
| TFZV 6.2B | BC | TFZV 30B | BS |
| TFZV 6.8B | BD | TFZV 33B | BT |
| TFZV 7.5B | BE | TFZV 36B | BU |
| TFZV 8.2B | BF | TFZV 39B | BV |

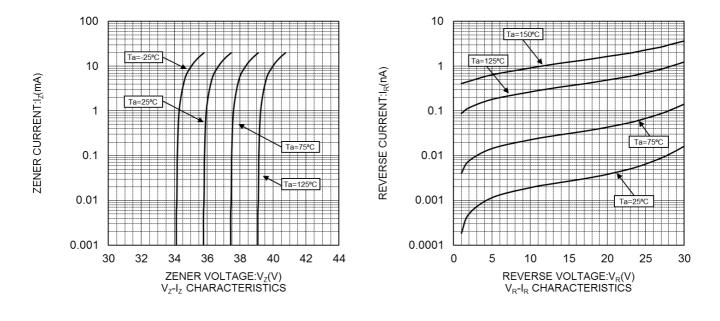


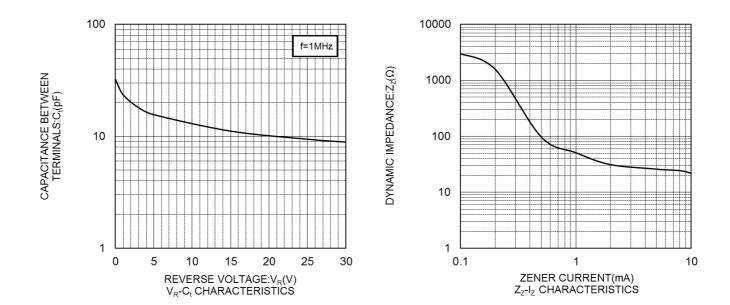
Characteristic Curves





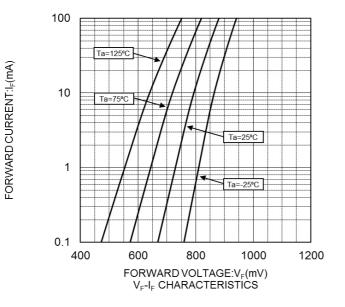
Characteristic Curves





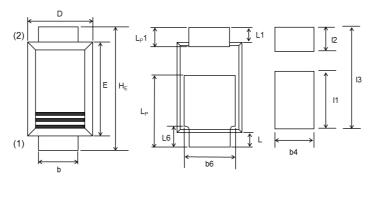


Characteristic Curves





Dimensions (SOD-323HE SC-108B TUMD2M)

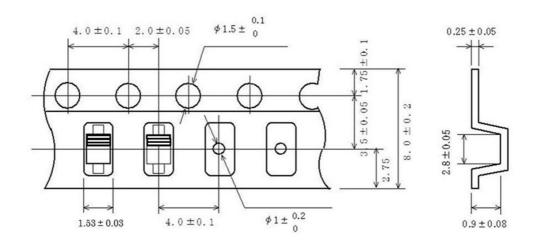




| DIM | | Milimeters | | | Inches | | |
|------------------|------|------------|------|-------|---------|-------|--|
| DIN | Min. | Average | Max. | Min. | Average | Max. | |
| A | 0.50 | 0.60 | 0.80 | 0.020 | 0.024 | 0.031 | |
| b | 0.75 | 0.80 | 0.85 | 0.029 | 0.031 | 0.033 | |
| b6 | 0.90 | 1.00 | 1.10 | 0.035 | 0.039 | 0.043 | |
| С | 0.12 | 0.17 | 0.27 | 0.005 | 0.007 | 0.011 | |
| D | 1.30 | 1.40 | 1.50 | 0.051 | 0.055 | 0.059 | |
| E | 1.90 | 2.00 | 2.10 | 0.075 | 0.079 | 0.083 | |
| HE | 2.30 | 2.50 | 2.70 | 0.090 | 0.098 | 0.106 | |
| L | - | 0.25 | - | - | 0.010 | - | |
| L1 | - | 0.25 | - | - | 0.010 | - | |
| L6 | - | 0.45 | - | - | 0.018 | - | |
| Lp | 1.40 | 1.50 | 1.60 | 0.055 | 0.059 | 0.063 | |
| L _P 1 | 0.30 | 0.40 | 0.50 | 0.012 | 0.016 | 0.020 | |
| b4 | - | 1.10 | - | - | 0.043 | - | |
| 1 | - | 2.00 | - | - | 0.079 | - | |
| 12 | - | 0.80 | - | - | 0.031 | - | |
| 13 | - | 3.30 | - | - | 0.130 | - | |

(1) The marking bar indicates the cathode.(2) The direction indicates the anode.

•Taping (Unit:mm)



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|---|--------|--------|------------|---------|--|
| ſ | CLASSⅢ | | CLASS II b | | |
| | CLASSⅣ | CLASSⅢ | CLASSⅢ | CLASSII | |

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 - [e] Use of our Products in proximity to heat-producing components, plastic cords, or other flammable items
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For details, please refer to ROHM Mounting specification

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This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Please take proper caution in your manufacturing process and storage so that voltage exceeding the Products maximum rating will not be applied to Products. Please take special care under dry condition (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of lonizer, friction prevention and temperature / humidity control).

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 - [b] the temperature or humidity exceeds those recommended by ROHM
 - [c] the Products are exposed to direct sunshine or condensation
 - [d] the Products are exposed to high Electrostatic
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