

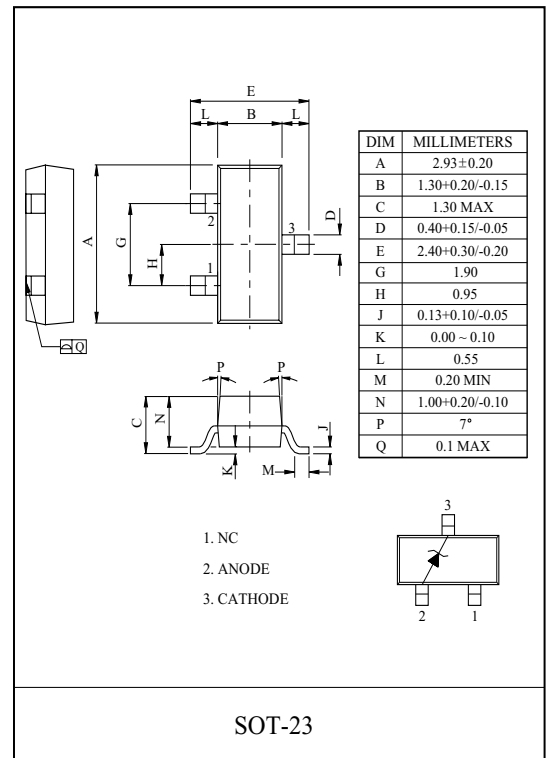
CONSTANT VOLTAGE REGULATION APPLICATION.
REFERENCE VOLTAGE APPLICATION.

FEATURES

- Small Package : SOT-23
- Normal Voltage Tolerance About $\pm 2.5\%$.

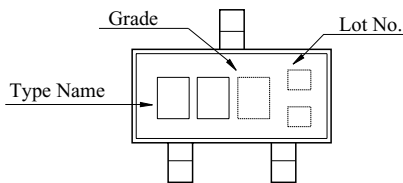
MAXIMUM RATING (Ta=25)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------|-----------|---------|------|
| Power Dissipation | P_D | 200 | mW |
| Junction Temperature | T_j | 150 | |
| Storage Temperature Range | T_{stg} | -55 150 | |



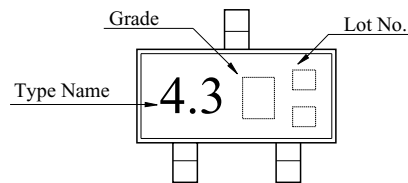
Marking

Example 1) 2.0V ~ 3.9V



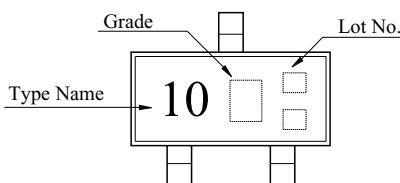
TYPE NAME : Z02W2.2V → 2B
 Z02W2.4V → 2C
 Z02W2.7V → 2D
 Z02W3.0V → 30
 Z02W3.3V → 33
 Z02W3.6V → 36

Example 2) 4.3V ~ 9.1V



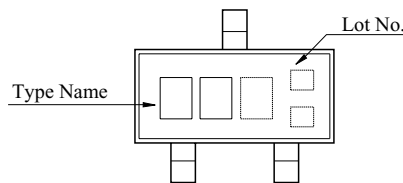
Example : Z02W4.3V

Example 3) 10V ~ 24V



Example : Z02W10V

Example 4) 30V ~ 36V



TYPE NAME : Z02W30V → 30A
 Z02W33V → 33A
 Z02W36V → 36A

Z02W2.2V~36V

ELECTRICAL CHARACTERISTICS (Ta=25)

| TYPE No. | Grade | Zener Voltage Vz (V) | | | Dynamic Impedance Zz () | | KNEE Dynamic Impedance Zzk () | | Reverse Current IR (μA) | |
|----------|-------|----------------------|------|---------|--------------------------|---------|--------------------------------|---------|--------------------------|-------|
| | | Min. | Max. | Iz (mA) | MAX. | Iz (mA) | MAX. | Iz (mA) | MAX. | VR(V) |
| Z02W2.2V | - | 2.05 | 2.38 | 5 | 100 | 5 | 1000 | 0.5 | 120 | 1.0 |
| | X | 2.05 | 2.26 | | | | | | | |
| | Z | 2.16 | 2.38 | | | | | | | |
| Z02W2.4V | - | 2.28 | 2.60 | 5 | 100 | 5 | 1000 | 0.5 | 120 | 1.0 |
| | X | 2.28 | 2.50 | | | | | | | |
| | Z | 2.40 | 2.60 | | | | | | | |
| Z02W2.7V | - | 2.50 | 2.90 | 5 | 110 | 5 | 1000 | 0.5 | 120 | 1.0 |
| | X | 2.50 | 2.75 | | | | | | | |
| | Z | 2.65 | 2.90 | | | | | | | |
| Z02W3.0V | - | 2.80 | 3.20 | 5 | 120 | 5 | 1000 | 0.5 | 50 | 1.0 |
| | X | 2.80 | 3.05 | | | | | | | |
| | Z | 2.95 | 3.20 | | | | | | | |
| Z02W3.3V | - | 3.10 | 3.50 | 5 | 130 | 5 | 1000 | 0.5 | 20 | 1.0 |
| | X | 3.10 | 3.35 | | | | | | | |
| | Z | 3.25 | 3.50 | | | | | | | |
| Z02W3.6V | - | 3.40 | 3.80 | 5 | 130 | 5 | 1000 | 0.5 | 10 | 1.0 |
| | X | 3.40 | 3.65 | | | | | | | |
| | Z | 3.55 | 3.80 | | | | | | | |
| Z02W4.3V | - | 4.00 | 4.50 | 5 | 130 | 5 | 1000 | 0.5 | 5 | 1.0 |
| | Y | 4.13 | 4.35 | | | | | | | |
| Z02W5.1V | - | 4.80 | 5.40 | 5 | 70 | 5 | 1000 | 0.5 | 1 | 1.5 |
| | Y | 4.97 | 5.24 | | | | | | | |
| Z02W5.6V | - | 5.30 | 6.00 | 5 | 40 | 5 | 900 | 0.5 | 1 | 2.5 |
| | Y | 5.43 | 5.81 | | | | | | | |
| Z02W6.2V | - | 5.80 | 6.60 | 5 | 30 | 5 | 500 | 0.5 | 1 | 3.0 |
| | Y | 6.00 | 6.39 | | | | | | | |
| Z02W6.8V | - | 6.40 | 7.20 | 5 | 25 | 5 | 150 | 0.5 | 0.5 | 5.0 |
| | Y | 6.60 | 7.02 | | | | | | | |

Z02W2.2V~36V

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| TYPE No. | Grade | Zener Voltage Vz (V) | | | Dynamic Impedance Zz (Ω) | | KNEE Dynamic Impedance Zzk (Ω) | | Reverse Current IR (μA) | |
|----------|-------|----------------------|-------|---------|--------------------------|---------|--------------------------------|---------|-------------------------|-------|
| | | Min. | Max. | Iz (mA) | MAX. | Iz (mA) | MAX. | Iz (mA) | MAX. | VR(V) |
| Z02W7.5V | - | 7.00 | 7.90 | 5 | 23 | 5 | 120 | 0.5 | 0.5 | 6.0 |
| | Y | 7.23 | 7.66 | | | | | | | |
| Z02W8.2V | - | 7.70 | 8.70 | 5 | 20 | 5 | 120 | 0.5 | 0.5 | 6.5 |
| | Y | 7.96 | 8.43 | | | | | | | |
| Z02W9.1V | - | 8.50 | 9.60 | 5 | 18 | 5 | 120 | 0.5 | 0.5 | 7.0 |
| | Y | 8.80 | 9.30 | | | | | | | |
| Z02W10V | - | 9.40 | 10.60 | 5 | 15 | 5 | 120 | 0.5 | 0.5 | 8.0 |
| | Y | 9.73 | 10.26 | | | | | | | |
| Z02W11V | - | 10.40 | 11.60 | 5 | 15 | 5 | 120 | 0.5 | 0.5 | 8.5 |
| | Y | 10.73 | 11.26 | | | | | | | |
| Z02W12V | - | 11.40 | 12.60 | 5 | 15 | 5 | 110 | 0.5 | 0.5 | 9.0 |
| | Y | 11.73 | 12.26 | | | | | | | |
| Z02W13V | - | 12.40 | 14.10 | 5 | 15 | 5 | 110 | 0.5 | 0.5 | 10 |
| | Y | 12.88 | 13.57 | | | | | | | |
| Z02W15V | - | 13.80 | 15.60 | 5 | 15 | 5 | 110 | 0.5 | 0.5 | 11 |
| | Y | 14.33 | 15.11 | | | | | | | |
| Z02W16V | - | 15.30 | 17.10 | 5 | 18 | 5 | 150 | 0.5 | 0.5 | 12 |
| | Y | 15.80 | 16.60 | | | | | | | |
| Z02W18V | - | 16.80 | 19.10 | 5 | 20 | 5 | 150 | 0.5 | 0.5 | 14 |
| | Y | 17.46 | 18.43 | | | | | | | |
| Z02W20V | - | 18.80 | 21.20 | 5 | 25 | 5 | 200 | 0.5 | 0.5 | 15 |
| | Y | 19.48 | 20.46 | | | | | | | |
| Z02W22V | - | 20.80 | 23.30 | 5 | 30 | 5 | 200 | 0.5 | 0.5 | 17 |
| | Y | 21.48 | 22.56 | | | | | | | |
| Z02W24V | - | 22.80 | 25.60 | 5 | 40 | 5 | 200 | 0.5 | 0.5 | 19 |
| | Y | 23.61 | 24.92 | | | | | | | |
| Z02W30V | - | 29.19 | 30.69 | 2 | 200 | 2 | 200 | 0.5 | 0.1 | 23 |
| Z02W33V | - | 32.15 | 33.79 | | 250 | | 250 | | | 25 |
| Z02W36V | - | 35.07 | 36.87 | | 300 | | 300 | | | 27 |

Z02W2.2V~36V

