

Silicon Zener Diode

Features

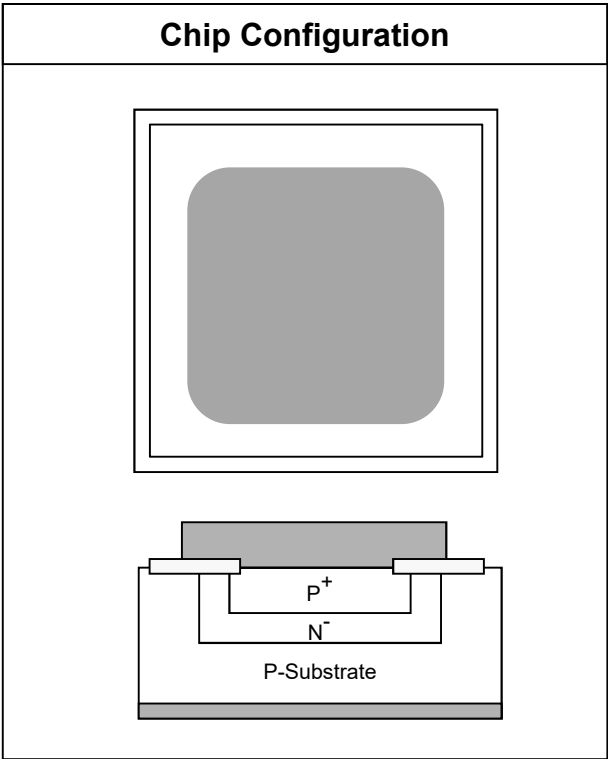
- Low leakage current

Structure

- Bidirectional Vertical : PNP
- Top electrode : Gold
- Bottom electrode : Gold

Size

- Chip size : 150(±15) μm x 150(±15) μm
- Thickness : 100(±15) μm
- Pad size : 100(±5) μm x 100(±5) μm



Absolute Maximum Ratings (Ta = 25°C)

| Characteristics      | Symbol         | Maximum Rating | Unit |
|----------------------|----------------|----------------|------|
| Power Dissipation    | P <sub>d</sub> | 30             | mW   |
| Junction Temperature | T <sub>j</sub> | 150            | C    |

Electrical Characteristics (Ta = 25°C)

| Characteristics         | Symbol         | Conditions            | Min. | Typ. | Max. | Unit |
|-------------------------|----------------|-----------------------|------|------|------|------|
| Forward Voltage         | V <sub>F</sub> | I <sub>F</sub> = 5 mA | 6    | -    | 8    | V    |
| Forward Leakage Current | I <sub>F</sub> | V <sub>F</sub> = 5 V  | -    | -    | 500  | nA   |
| Reverse Voltage         | V <sub>Z</sub> | I <sub>Z</sub> = 5 mA | 8    | -    | 13   | V    |
| Reverse Leakage Current | I <sub>R</sub> | V <sub>R</sub> = 5 V  | -    | -    | 500  | nA   |

Equivalent Circuit

