

1.Scope

The present specifications shall apply to an SJPZ-N18.

2.Outline

|              |                         |
|--------------|-------------------------|
| Type         | Silicon Diode           |
| Structure    | Resin Molded            |
| Applications | Over Voltage Absorption |

3.Flammability

UL94V-0 (Equivalent)

## 4. Absolute maximum ratings

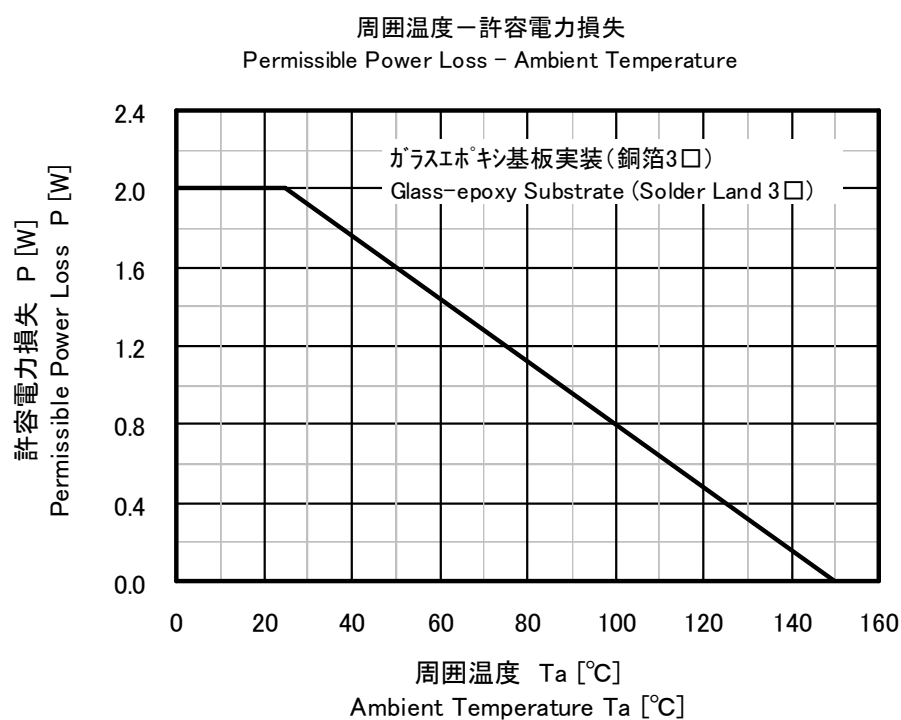
| No. | Item                         | Symbol    | Unit | Rating   | Conditions             |
|-----|------------------------------|-----------|------|----------|------------------------|
| 1   | Permissible Power loss       | P         | W    | 2        | Refer to Derating of 6 |
| 2   | Transient Peak Reverse Power | $P_{RSM}$ | W    | 500      | Single Square Wave     |
| 3   | Junction Temperature         | $T_j$     | °C   | -55~+150 | —                      |
| 4   | Storage Temperature          | $T_{stg}$ | °C   | -55~+150 | —                      |

5. Electrical characteristics( $T_a=25^{\circ}\text{C}$  , unless otherwise specified)

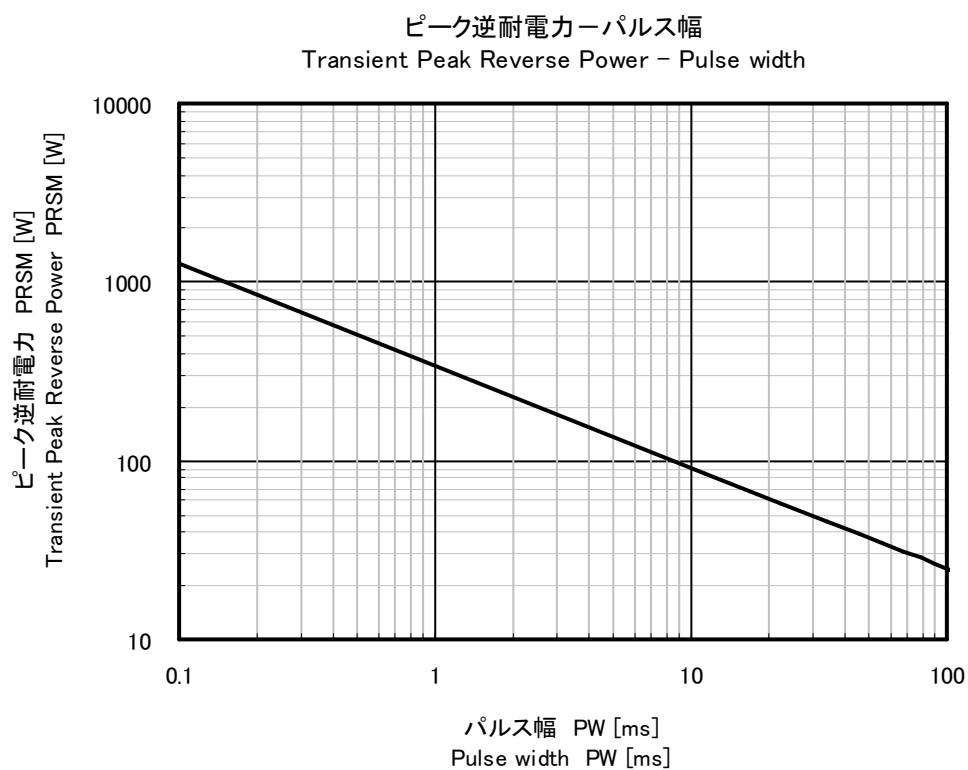
| No. | Item                                      | Symbol     | Unit     | Value       | Conditions                         |
|-----|-------------------------------------------|------------|----------|-------------|------------------------------------|
| 1   | Forward Voltage Drop                      | $V_F$      | V        | 1.2 max.    | $I_F=2\text{A}$                    |
| 2   | Reverse Breakdown Voltage                 | $V_Z$      | V        | 16.8 ~ 19.1 | $I_Z=1\text{mA}$                   |
| 3   | Reverse Leakage Current                   | $I_R$      | uA       | 1 max.      | $V_R=13\text{V}$                   |
| 4   | Temperature Coefficient Breakdown Voltage | $\gamma_z$ | mV/°C    | 13 typ.     | $I_Z=1\text{mA}$                   |
| 5   | Equivalent Resistance of Breakdown Region | $R_z$      | $\Omega$ | 2 typ.      | $I_z=10\text{mA} \sim 20\text{mA}$ |

## 6. Derating

## Permissible Power Loss

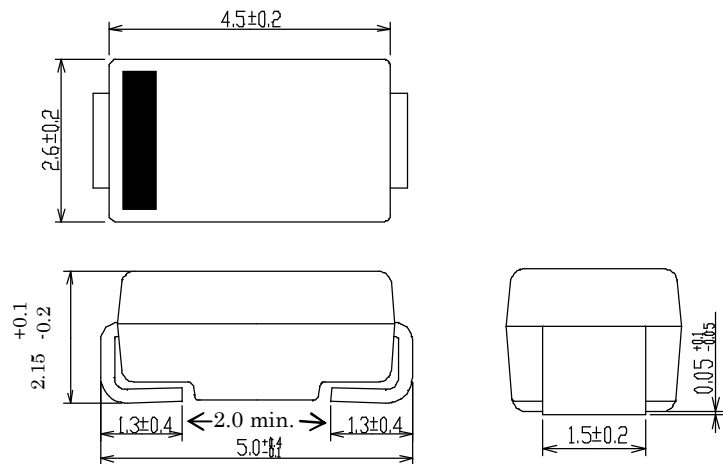


## 7. Transient Peak Reverse Power Rating



8. Package information

8-1 Package type, physical dimensions

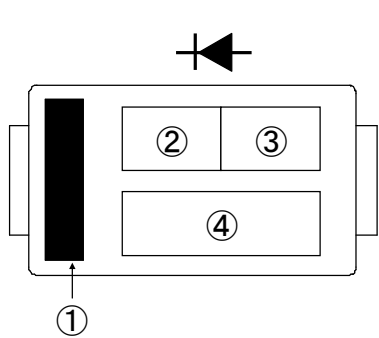


Dimensions in mm

8-2 Appearance

The body shall be clean and shall not bear any stain, rust or flaw.

8-3 Marking



- 1 Polarity marking (Cathode band)
- 2 Type number  
SJPZ-N as abbreviated of ZN.  
Vz Class number  
18V as abbreviated of 18.
- 3 Lot number  
Example) 9615  
9: Last number of Year  
6: Month from 1 to 9 for Jan. to Sep. O for Oct. , N for Nov. , D for Dec.  
15: Day.

