

## 1. Scope

The present specifications shall apply to an SJPZ-E20.

## 2. Outline

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

## 3. Flammability

UL94V-0 (Equivalent)

Not Recommended for New Designs

## 4. Absolute maximum ratings

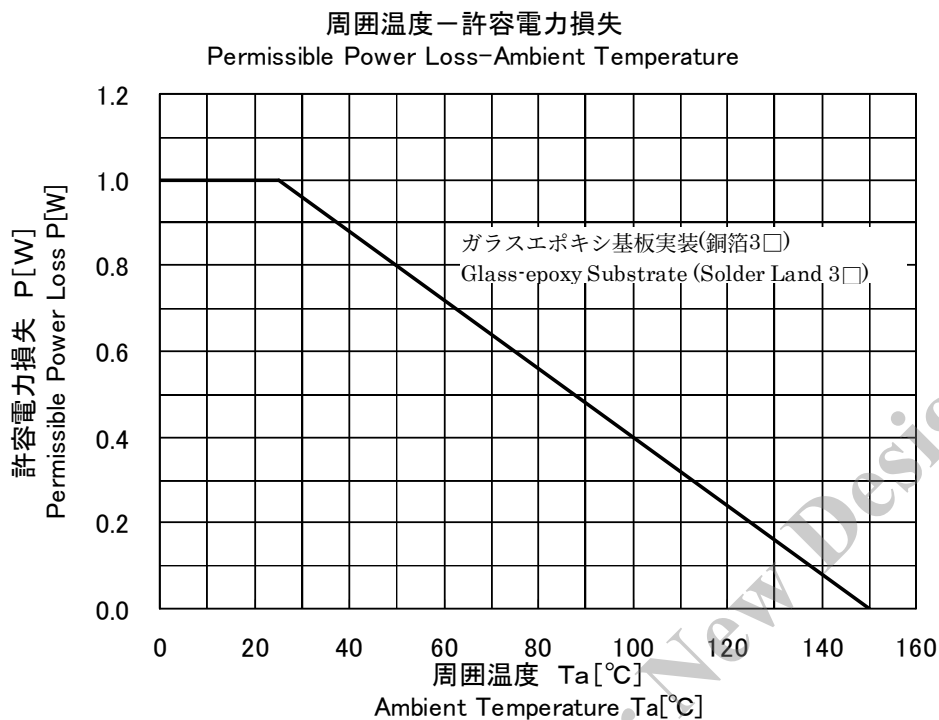
| No. | Item                         | Symbol           | Unit | Rating   | Conditions             |
|-----|------------------------------|------------------|------|----------|------------------------|
| 1   | Permissible Power loss       | P                | W    | 1        | Refer to Derating of 6 |
| 2   | Transient Peak Reverse Power | P <sub>RSM</sub> | W    | 95       | Single Square Wave     |
| 3   | Junction Temperature         | T <sub>j</sub>   | °C   | -55~+150 | —                      |
| 4   | Storage Temperature          | T <sub>stg</sub> | °C   | -55~+150 | —                      |

## 5. Electrical characteristics(Ta=25°C , unless otherwise specified)

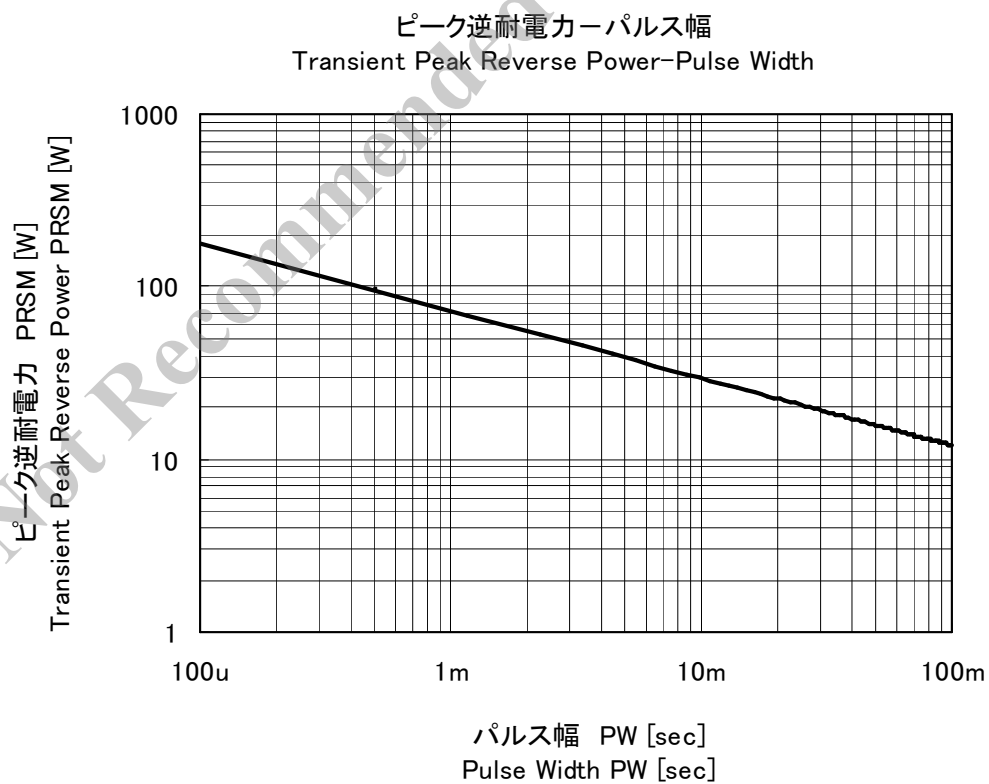
| No. | Item                                      | Symbol         | Unit  | Value     | Conditions                |
|-----|-------------------------------------------|----------------|-------|-----------|---------------------------|
| 1   | Reverse Breakdown Voltage                 | V <sub>Z</sub> | V     | 18.8~21.2 | I <sub>Z</sub> =1mA       |
| 2   | Reverse Leakage Current                   | I <sub>R</sub> | uA    | 10 max.   | V <sub>R</sub> =15V       |
| 3   | Temperature Coefficient Breakdown Voltage | γ <sub>z</sub> | mV/°C | 16 typ.   | I <sub>Z</sub> =1mA       |
| 4   | Equivalent Resistance of Breakdown Region | R <sub>Z</sub> | Ω     | 4 typ.    | I <sub>Z</sub> =10mA~20mA |

## 6. Derating

## Permissible Power Loss

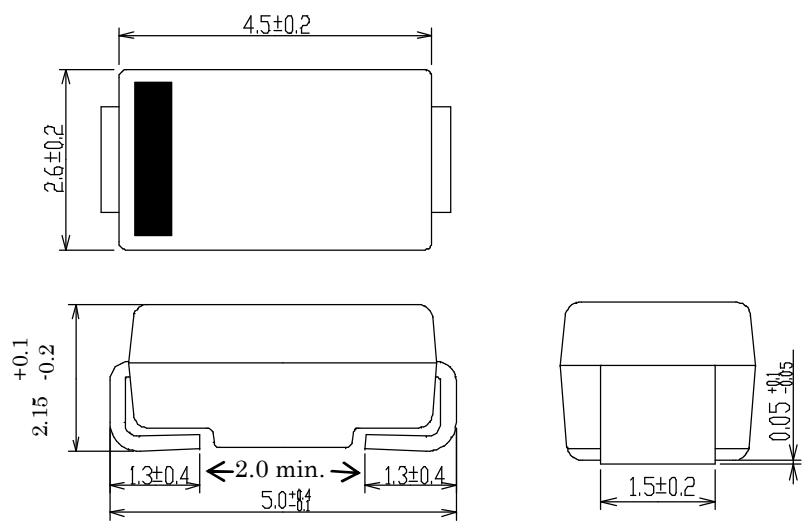


## 7. Transient Peak Reverse Power Rating



8. Package information

8-1 Package type, physical dimensions

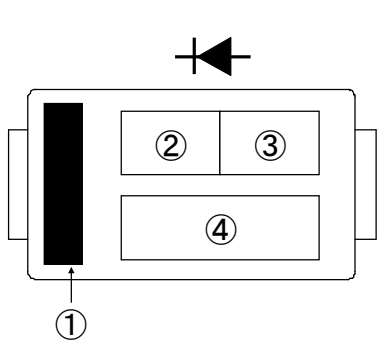


Dimensions in mm

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-E as abbreviated of ZE.
- ③ Vz Class number  
20V as abbreviated of 20.
- ④ Lot number

Example) 6515

6: Last number of Year

5: Month from 1 to 9 for Jan. to Sep. O for Oct., N for Nov., D for Dec.

15: Day.

*Not Recommended for New Designs*