

## 1. Scope

The present specifications shall apply to an SJPZ-E33.

## 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

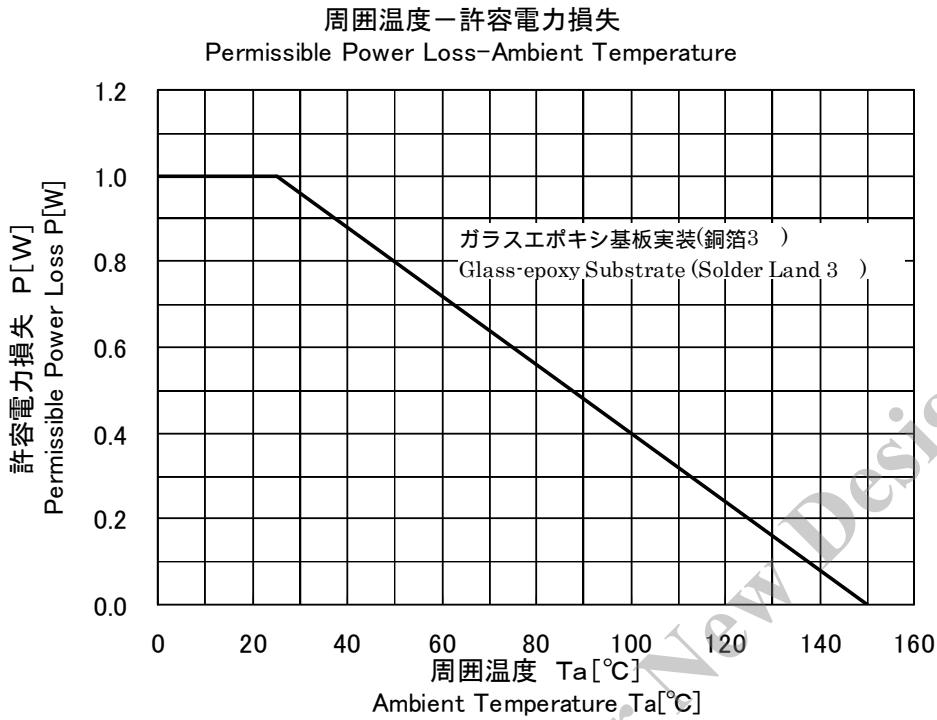
| No. | Item                         | Symbol    | Unit | Rating   | Conditions             |
|-----|------------------------------|-----------|------|----------|------------------------|
| 1   | Permissible Power loss       | P         | W    | 1        | Refer to Derating of 6 |
| 2   | Transient Peak Reverse Power | $P_{RSM}$ | W    | 95       | Single Square Wave     |
| 3   | Junction Temperature         | $T_j$     | °C   | -55~+150 | —                      |
| 4   | Storage Temperature          | $T_{stg}$ | °C   | -55~+150 | —                      |

5. Electrical characteristics( $T_a=25$  , unless otherwise specified)

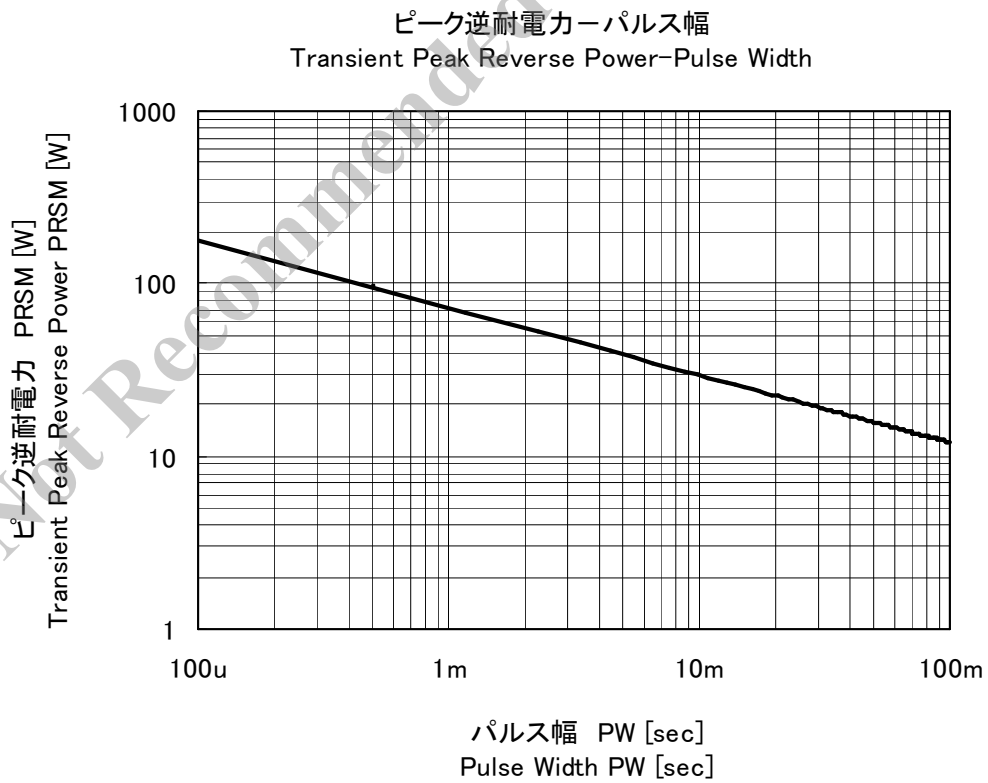
| No. | Item                                      | Symbol     | Unit     | Value       | Conditions           |
|-----|---|------------|----------|-------------|----------------------|
| 1   | Reverse Breakdown Voltage                 | $V_Z$      | V        | 31.0 ~ 35.0 | $I_Z=1mA$            |
| 2   | Reverse Leakage Current                   | $I_R$      | uA       | 10 max.     | $V_R=25V$            |
| 3   | Temperature Coefficient Breakdown Voltage | $\gamma_z$ | mV/°C    | 28 typ.     | $I_Z=1mA$            |
| 4   | Equivalent Resistance of Breakdown Region | $R_z$      | $\Omega$ | 10 typ.     | $I_Z=10mA \sim 20mA$ |

6. Derating

Permissible Power Loss

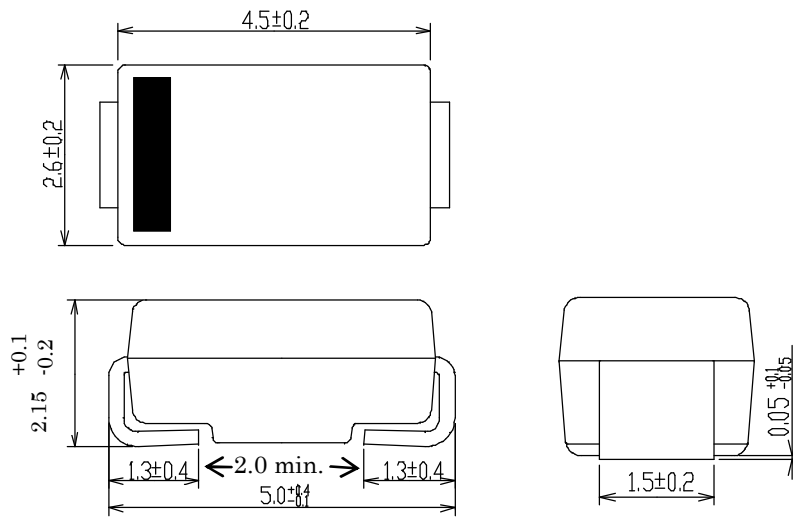


7. Transient Peak Reverse Power Rating



8. Package information

8-1 Package type, physical dimensions

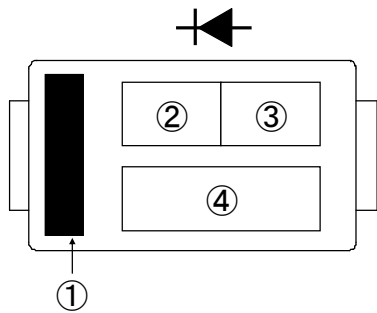


Dimensions in mm

8-2 Appearance

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

8-3 Marking



Polarity marking (Cathode band)

Type number  
SJPZ-E as abbreviated of ZE.

Vz Class number  
33V as abbreviated of 33.

Lot number  
Example) 6508  
6: Last number of Year  
5: Month from 1 to 9 for Jan. to Sep. O for Oct. , N for Nov. , D for Dec.  
08: Day.

Not Recommended for New Designs