

1. Scope
- The present specifications shall apply to an SJPZ-K28.
2. Outline

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

3. Flammability
- UL94V-0 (Equivalent)

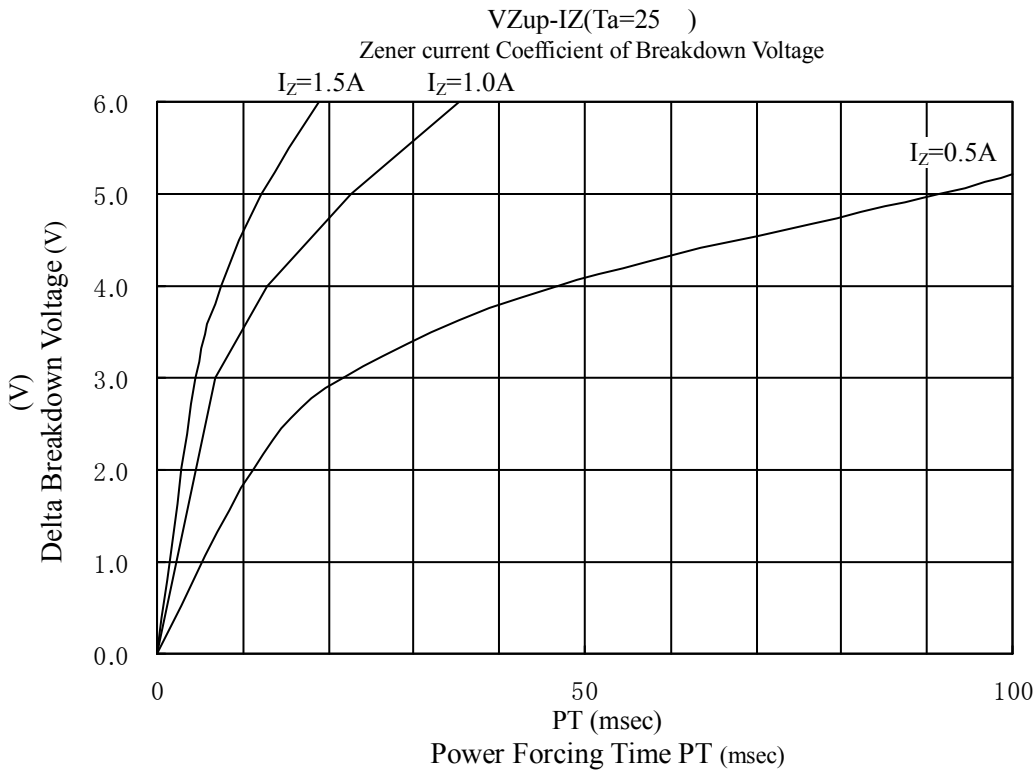
## 4. Absolute maximum ratings

| No. | Item                           | 記号<br>Symbol | 単位<br>Unit | 定 格<br>Rating                                          | 条 件<br>Conditions      |
|-----|--------------------------------|--------------|------------|--------------------------------------------------------|------------------------|
| 1   | Transient Peak Reverse Power   | $P_R$        | W          | 50                                                     | Single Square Wave     |
| 2   | Direct Current Reverse Voltage | $V_{RM}$     | V          | 20                                                     |                        |
| 3   | Permissible Power loss         | P            | W          | 1.8 (Ceramic substrate)<br>1.0 (Glass-Epoxy substrate) | Refer to Derating of 7 |
| 4   | Peak Surge Reverse Current     | $I_{ZSM}$    | A          | 2                                                      |                        |
| 5   | Junction Temperature           | $T_j$        | °C         | -40~+150                                               |                        |
| 6   | Storage Temperature            | $T_{stg}$    | °C         | -40~+150                                               |                        |

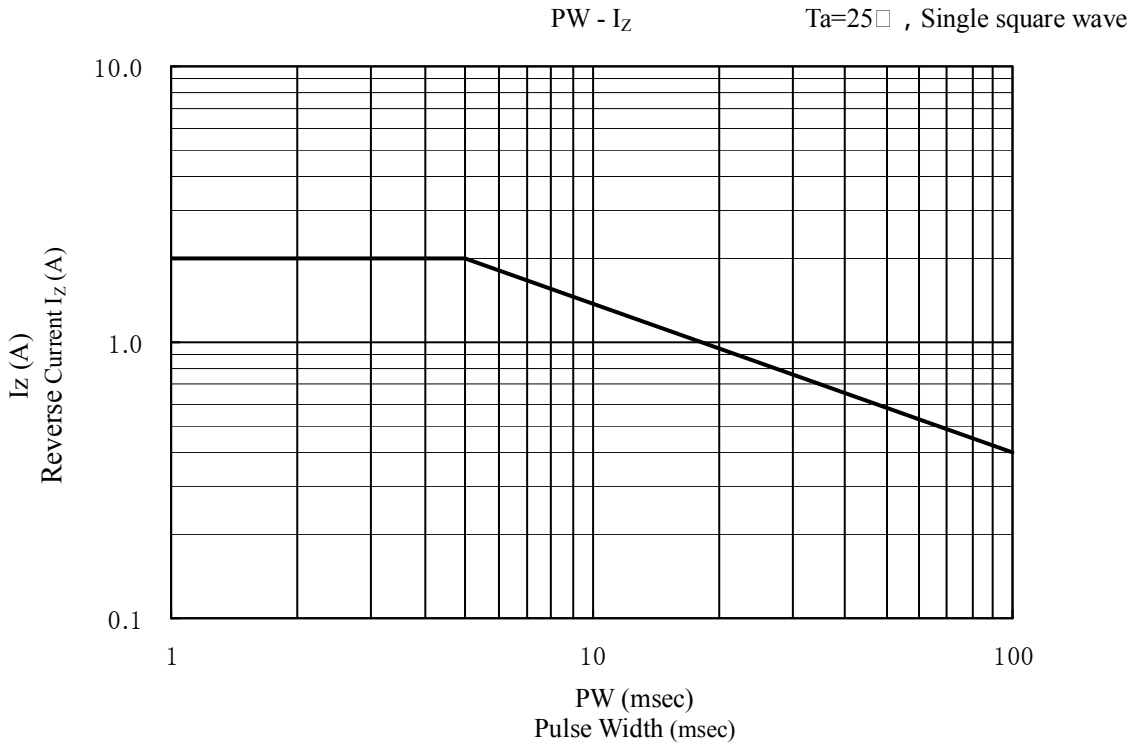
5. Electrical characteristics( $T_a=25^{\circ}\text{C}$  , unless otherwise specified)

| No. | Item                                           | Symbol        | Unit                         | Value     | Conditions                                   |
|-----|------------------------------------------------|---------------|------------------------------|-----------|----------------------------------------------|
| 1   | Forward Voltage Drop                           | $V_F$         | V                            | 0.95 max. | $I_F=1.0\text{A}$                            |
| 2   | Reverse Brakedown Voltage                      | $V_Z$         | V                            | $28\pm3$  | $I_Z=1\text{mA}$                             |
| 3   | Reverse Leakage Current                        | $I_R$         | $\mu\text{A}$                | 10 max.   | $V_R=20\text{V}$                             |
| 4   | Reverse Leakage Current Under High Temperature | $H \cdot I_R$ | mA                           | 1.0 max.  | $V_R=20\text{V}$ , $T_j=150^{\circ}\text{C}$ |
| 5   | Temperature Coefficient of Breakdown Voltage   | $\gamma_Z$    | $\text{mV}/^{\circ}\text{C}$ | 25 typ.   | $I_Z=1\text{mA}$                             |
| 6   | Equivalent Resistance of Breakdown Region      | $R_Z$         | $\Omega$                     | 26 typ.   | $I_Z=1\text{mA}$ to $10\text{mA}$            |

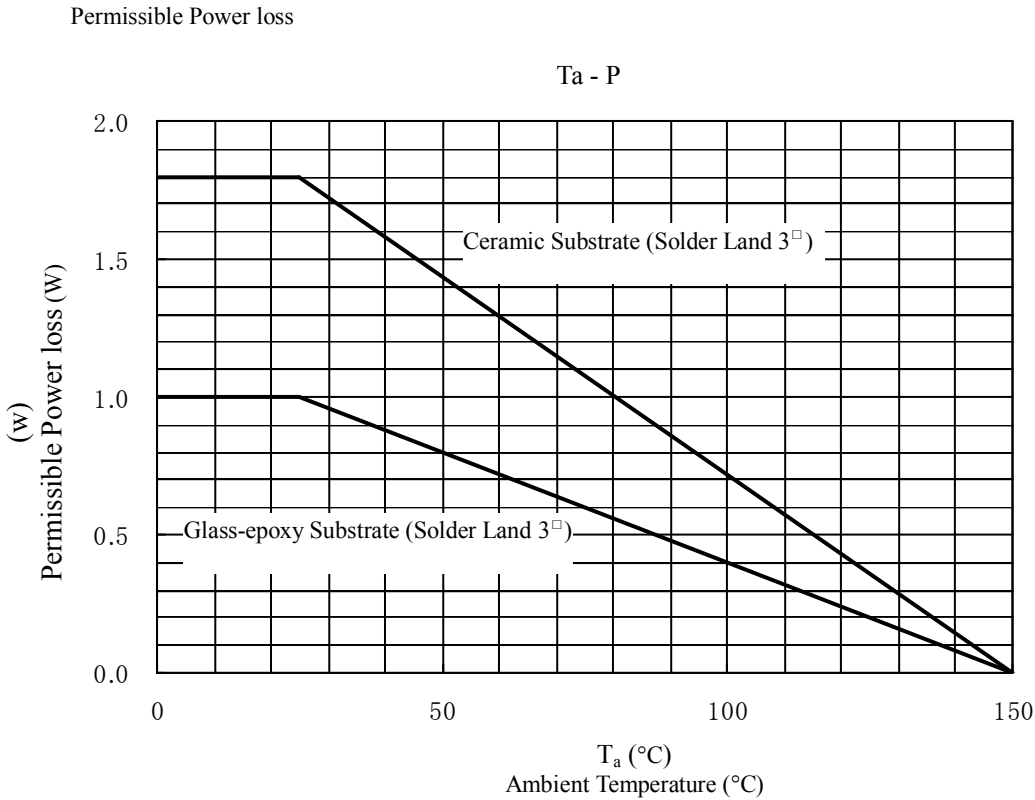
6. Characteristics



Reverse Current

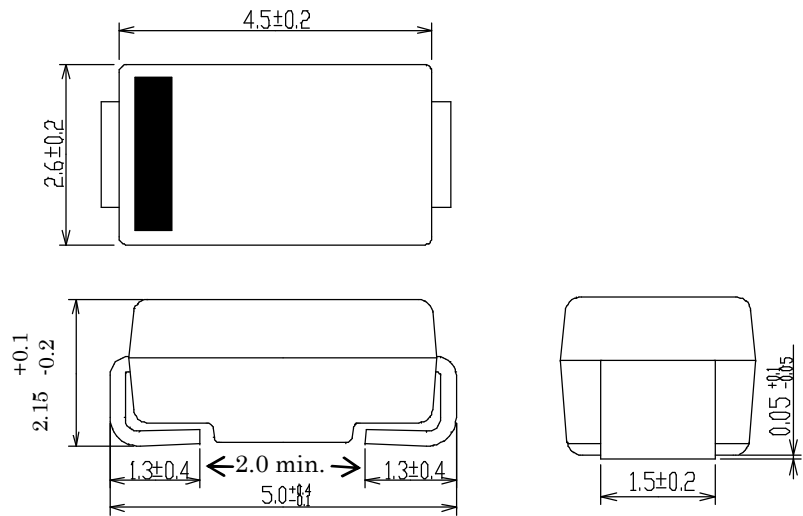


7. Derating



8. Package information

8-1 Package type, physical dimensions

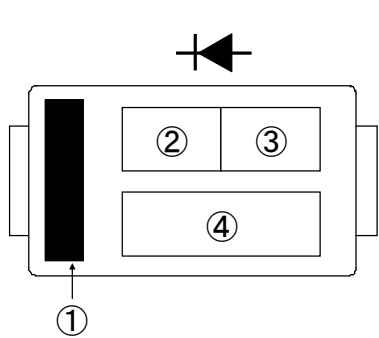


単位 : mm  
Dimensions in mm

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-K as abbreviated of ZK.
- 3 Vz Class number  
28V as abbreviated of 28.
- 4 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.

