

### ● Soldering and Mounting

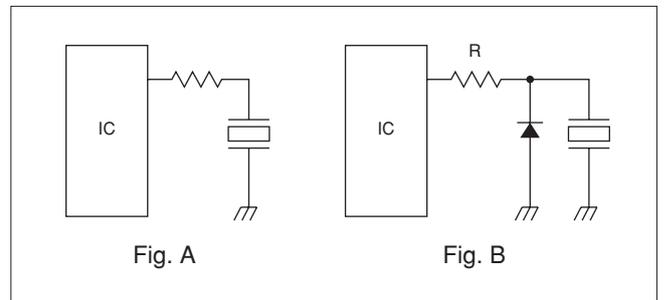
Washing of the component is not acceptable, because it is not sealed.

### ● Rating

The component may be damaged if mechanical stress over this specification is applied.

### ● Handling

1. Please pay attention to protect operating circuit from surge voltage provided by something of force such as falling, shock and temperature changing.
2. If DC voltage is applied to the component, silver migration may occur. Please pay full attention not to subject the component to DC voltage for long periods.
3. The resistor should be used as shown in Fig. A. A suitable resistance value should be chosen, preferably 1kΩ to 2kΩ. Instead of this measure, a diode may also be applied as shown in Fig. B.



4. High pressure air should not be blown on the component directly at short range by air gun or equivalent.
5. Please do not adsorb the open hole when the component is mounted.
6. This product is MSL 2.FLOOR LIFE TIME is one year. ( $\leq 30^{\circ}\text{C}$  / 60%RH)
7. The components, packed in the moisture-proof bag (dry pack) with the Humidity. Indicator Card and Caution Label are sensitive to moisture. The following treatment is required before applying reflow soldering, to avoid reliability degradation caused by thermal stress. When unpacked, store the component in an atmosphere of below  $30^{\circ}\text{C}$  and below 60% R.H., and solder within one year.

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## ● Storage and Operating Conditions

### 1. Product Storage Condition

Please store the products in room where the temperature/humidity is stable. And avoid such places where there are large temperature changes. Please store the products under the following conditions:

Temperature: -10 to + 40°C

Humidity: 15 to 85% R.H.

### 2. Expiration Date on Storage

Expire date (Shelf life) of the products is six months after delivery under the conditions of a sealed and an unopened package. Please use the products within six months after delivery. If you store the products for a long time (more than six months), use carefully because the products may be degraded in solderability due to storage under poor conditions.

Please confirm solderability and characteristics for the products regularly.

### 3. Notice on Product Storage

(1) Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organic gas, Sulfides and so on), because the characteristics may be reduced in quality, may be degraded in solderability due to the storage in a chemical atmosphere.

(2) Please do not put the products directly on the floor without anything under them to avoid damp places and/or dusty places.

(3) Please do not store the products in the places such as: in a damp heated place, in any place exposed to direct sunlight or excessive vibration.

(4) Please use the products immediately after the package is opened, because the characteristics may be reduced in quality, and/or be degraded in the solderability due to storage under the poor condition.

(5) Please do not drop the products to avoid cracking of ceramic element.

### 4. Others

Please be sure to consult with our sales representative or engineer whenever the products are to be used in conditions not listed above.