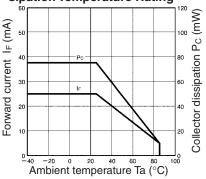
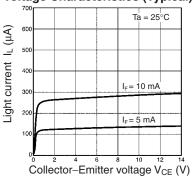
■ Engineering Data

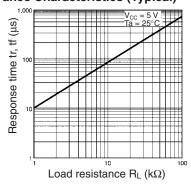
Forward Current vs. Collector Dissipation Temperature Rating



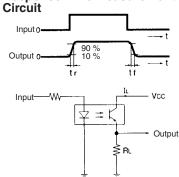
Light Current vs. Collector-Emitter Voltage Characteristics (Typical)



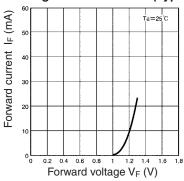
Response Time vs. Load Resistance Characteristics (Typical)



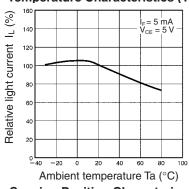
Response Time Measurement



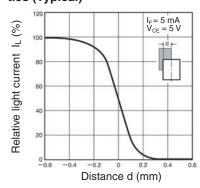
Forward Current vs. Forward Voltage Characteristics (Typical)



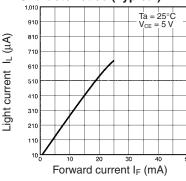
Relative Light Current vs. Ambient Temperature Characteristics (Typical) ature Characteristics (Typical)



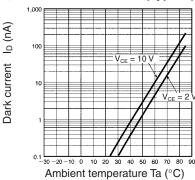
Sensing Position Characteristics (Typical)



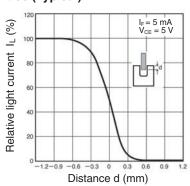
Light Current vs. Forward Current Characteristics (Typical)



Dark Current vs. Ambient Temper-

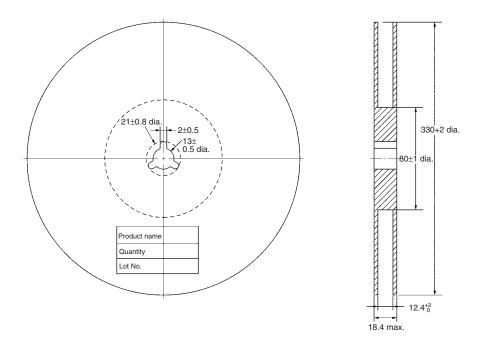


Sensing Position Characteristics (Typical)

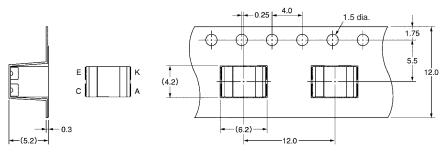


■ Tape and Reel

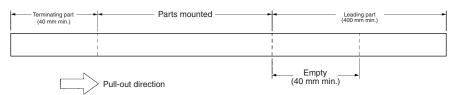
Reel



Tape



Tape configuration



Tape quantity

1,000 pcs./reel

Precautions

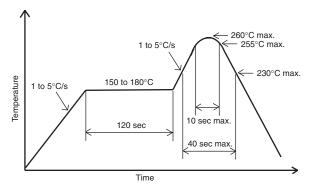
■ Soldering Information

Reflow soldering

• The following soldering paste is recommended:

Melting temperature: 216 to 220°C Composition: Sn 3.5 Ag 0.75 Cu

- The recommended thickness of the metal mask for screen printing is between 0.2 and 0.25 mm.
- Set the reflow oven so that the temperature profile shown in the following chart is obtained for the upper surface of the product being soldered.



Manual soldering

- Use "Sn 60" (60% tin and 40% lead) or solder with silver content.
- Use a soldering iron of less than 25 W, and keep the temperature of the iron tip at 300°C or below.
- Solder each point for a maximum of three seconds.
- After soldering, allow the product to return to room temperature before handling it.

Storage

To protect the product from the effects of humidity until the package is opened, dry-box storage is recommended. If this is not possible, store the product under the following conditions:

Temperature: 10 to 30°C Humidity: 60% max.

The product is packed in a humidity-proof envelope. Reflow soldering must be done within 48 hours after opening the envelope, during which time the product must be stored under 30°C at 80% maximum humidity.

If it is necessary to store the product after opening the envelope, use dry-box storage or reseal the envelope.

Baking

If a product has remained packed in a humidity-proof envelope for six months or more, or if more than 48 hours have lapsed since the envelope was opened, bake the product under the following conditions before use:

Reel: 60°C for 24 hours or more Bulk: 80°C for 4 hours or more