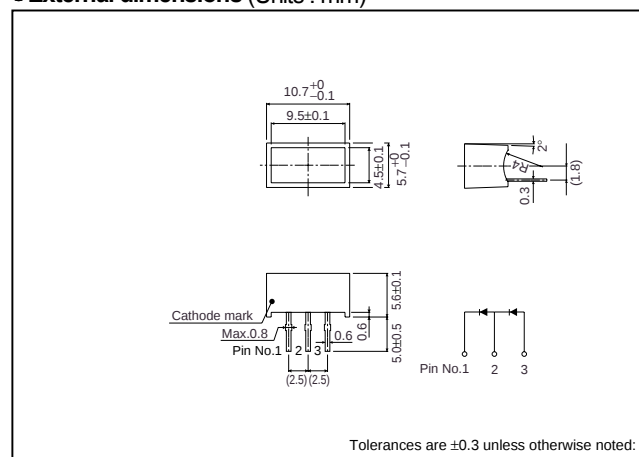


## LD-001 Series

## ● Features

- External dimensions (Units : mm)



| Emitting color | Red      | Orange    | Yellow    | Green    |
|----------------|----------|-----------|-----------|----------|
| Type           | LD-001VR | LD-001DU* | LD-001YY* | LD-001MG |

\*Order-based production.

[illegible]

\* Pulse width 1ms duty 1 / 5

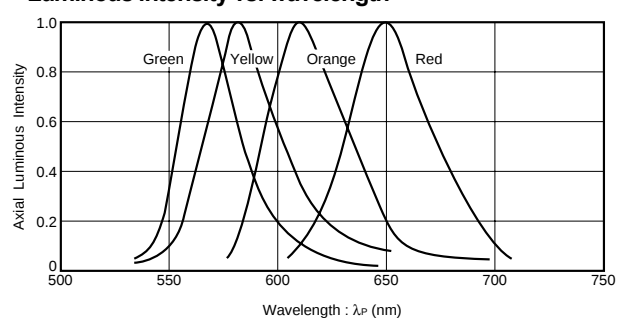
## LED displays

## ●Electrical and optical characteristics (Ta = 25°C)

| Parameter                | Symbol          | Conditions          | Red  |      |      | Orange |      |      | Yellow |      |      | Green |      |      | Unit          |
|--------------------------|-----------------|---------------------|------|------|------|--------|------|------|--------|------|------|-------|------|------|---------------|
|                          |                 |                     | Min. | Typ. | Max. | Min.   | Typ. | Max. | Min.   | Typ. | Max. | Min.  | Typ. | Max. |               |
| Forward voltage          | $V_F$           | $I_F = 10\text{mA}$ | –    | 2.0  | 2.8  | –      | 2.0  | 2.8  | –      | 2.1  | 2.8  | –     | 2.1  | 2.8  | V             |
| Reverse current          | $I_R$           | $V_R = 3\text{V}$   | –    | –    | 10   | –      | –    | 10   | –      | –    | 10   | –     | –    | 10   | $\mu\text{A}$ |
| Peak wavelength          | $\lambda_P$     | $I_F = 10\text{mA}$ | –    | 650  | –    | –      | 610  | –    | –      | 585  | –    | –     | 563  | –    | nm            |
| Spectral line half width | $\Delta\lambda$ | $I_F = 10\text{mA}$ | –    | 40   | –    | –      | 40   | –    | –      | 40   | –    | –     | 40   | –    | nm            |

Electrical and optical values are guaranteed values per element.

## ●Luminous intensity vs. wavelength



## ●Luminous intensity

| Color  | Type     | Min. | Typ. | Max. | Unit |
|--------|----------|------|------|------|------|
| Red    | LD-001VR | 2.2  | 6.3  | –    | mcd  |
| Orange | LD-001DU | 2.2  | 6.3  | –    | mcd  |
| Yellow | LD-001YY | 1.4  | 4.0  | –    | mcd  |
| Green  | LD-001MG | 3.6  | 10   | –    | mcd  |

Note 1: Measured at  $I_F = 10\text{mA}$

Note 2: Current passes through 2 elements in series.

## ●Operation notes

When forming leads, the bend should be at least 2mm from the base of the package. Solder after forming the leads, and ensure that the inside of the LED is not subjected to mechanical stress while it is hot.