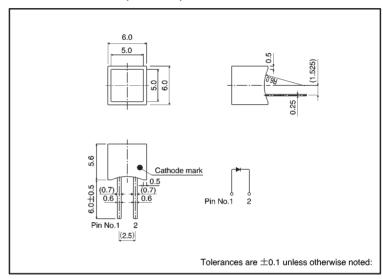
Flat displays LD-101 Series

The LD-101 series were designed in response to the need for small, flat displays. These are single-chip, flat displays with high luminance.

Features

- 1) Planar emission from a single chip.
- 2) Thin outer casing, multiple units can be coupled together.

External dimensions (Units: mm)



Selection guide

| Emitting color | Red | Orange | Yellow | Green | |
|----------------|----------|----------|----------|----------|--|
| Туре | LD-101VR | LD-101DU | LD-101YY | LD-101MG | |

●Absolute maximum ratings (Ta = 25°C)

| Parameter | Symbol | Red | LD-101VR | Orange | LD-101DU | Yellow | LD-101YY | Green | LD-101MG | Unit |
|------------------------|--------|-----|--------------------------|--------|----------|--------|----------|-------|----------|------|
| Power dissipation | P□ | | 60 | | 60 | | 60 | | 75 | mW |
| Forward current | lF | | 20 | | 20 | | 20 | | 25 | mA |
| Peak forward current | IFP | | 60* | 60* | | 60* | | 60* | | mA |
| Reverse voltage | VR | | 3 | | 3 | | 3 | | 3 | V |
| Operating temperature | Topr | | −25~+75 | | | | | | Ĉ | |
| Storage temperature | Tstg | | − 30~ + 85 | | | | | | Ĉ | |

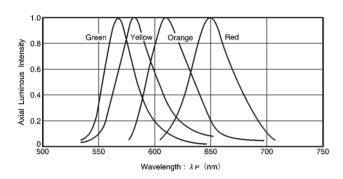
^{*} Pulse width 1ms duty 1 / 5

LED displays LD-101 Series

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

| Parameter Symbol | Cumbal | I Canditions | Red | | Orange | | Yellow | | | Green | | | Unit | | |
|--------------------------|------------|--------------------|------|------|--------|------|--------|------|------|-------|------|------|------|-------|----|
| | Conditions | Min. | Тур. | Max. | Min. | Тур. | Max. | Min. | Тур. | Max. | Min. | Тур. | Max. | Offil | |
| Forward voltage | VF | I=10mA | _ | 2.0 | 2.8 | _ | 2.0 | 2.8 | _ | 2.1 | 2.8 | _ | 2.1 | 2.8 | ٧ |
| Reverse current | lR | V _R =3V | _ | _ | 10 | _ | _ | 10 | - | _ | 10 | _ | _ | 10 | μΑ |
| Peak wavelength | λР | I=10mA | _ | 650 | - | _ | 610 | _ | _ | 585 | - | _ | 563 | _ | nm |
| Spectral line half width | Δλ | I=10mA | _ | 40 | _ | _ | 40 | _ | _ | 40 | _ | _ | 40 | _ | nm |

Luminous intensity vs. wavelength



Luminous intensity

| Color | Туре | Min. | Тур. | Max. | Unit | |
|--------|----------|------|------|------|------|--|
| Red | LD-101VR | 0.9 | 2.5 | _ | mcd | |
| Orange | LD-101DU | 0.9 | 2.5 | _ | mcd | |
| Yellow | LD-101YY | 0.9 | 2.5 | _ | mcd | |
| Green | LD-101MG | 1.4 | 4.0 | _ | mcd | |

Note: Measured at IF = 10mA

Operation notes

When forming leads, the bend should be at least 2 mm 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.