BL15 - 1212

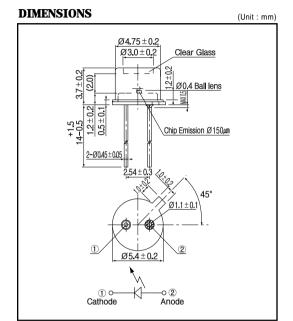
The BL15 - 1212 is a LED of 650nm wavelength using four elements (AlGalnP). Our original LED processing technology made it possible to increase the electric current density at the emission point. The luminous strength of single light source per unit surface is now more than ten times higher than before.

FEATURES

- High brightness
- The Optical axis match is easy because of red luminance.
- Optical design is easy because of the point light of Ø 150 m

APPLICATIONS

- Source of light for optical switch , optical fiber , and scanner
- · Source of light for optical sensor parallel light
- Source of light for various, precise measurements



MAXIMUM RATINGS

(Ta=25)

| Item | Symbol | Rating | Unit |
|-------------------------|-------------|------------|------|
| Reverse voltage | VR | 3 | V |
| Forward current | [F | 40 | mA |
| Power dissipation | P□ | 100 | mW |
| Pulse forward current 1 | FP | 500 | mA |
| Operating temp. | Topr. | - 30 + 85 | |
| Storage temp. | Tstg. | - 40 + 100 | |
| Soldering temp. *2 | Tsol. | 260 | |

^{*1.} pulse width : tw 10 pec.period :T=1msec.

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25)

| Item | Symbol | Conditions | Min. | Тур. | Max. | Unit. |
|--------------------------|--------|------------|------|------|------|-------|
| Forward voltage | VF | I=20mA | | 1.9 | 2.8 | V |
| Reverse current | R | VR = 3V | | | 10 | μA |
| Radiant intensity | P∘(W) | I=20mA | | 0.5 | | mW |
| Peak emission wavelength | р | I=20mA | | 650 | | nm |
| Spectral bandwidth 50% | | I=20mA | | 30 | | nm |
| Half angle | | I=20mA | | ±18 | | deg. |

^{*2.} For MAX.5 seconds at the position of 2 mm from the package

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Ambient temperature

Ambient temperature Ta

Power dissipation Vs.

Radiant intensity Vs.
Forward current

Ambient temperature

Ambient temperature. Ta-

Relative radiant intensity Vs.

