

# CL120TY3B

Yellow

3mm, Flanged Cylindrical, 6.1mm Height  
130° viewing angle

DWG BY:  
BL / GP  
12-07-07

CHK BY:  
PL  
12-11-07

QA:  
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MFG:  
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REVISION LTR: -

12-07-07

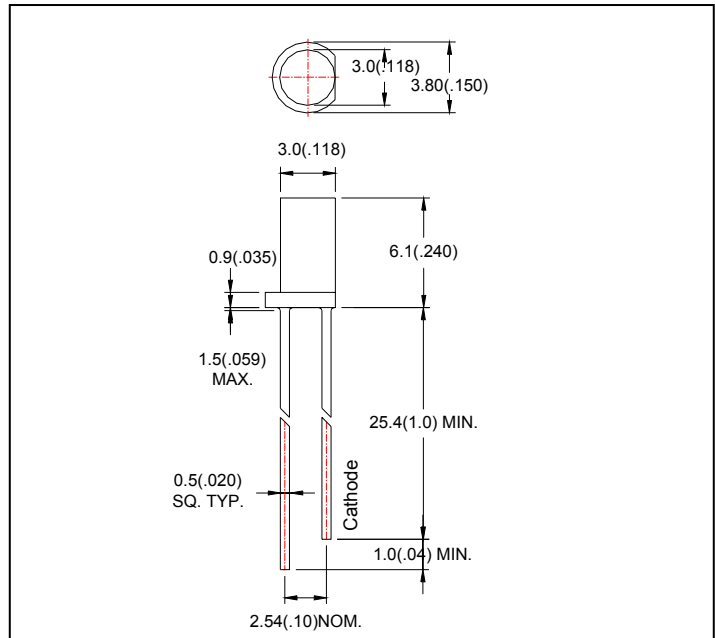
● **Features:**

1. Chip material: GaAsP/GaP
2. Emitted color : Yellow
3. Lens Appearance : Yellow Diffused
4. Cylindrical shape.
5. Low power consumption.
6. Compatible
7. Long life solid state reliability.
8. This product is RoHS compliant.

● **Applications:**

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● **Package dimensions:**



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  ( $0.01''$ ) unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

● **Absolute Maximum Ratings(Ta=25°C)**

| Parameter                          | Symbol          | Rating                | Unit |
|------------------------------------|-----------------|-----------------------|------|
| Power Dissipation                  | Pd              | 80                    | mW   |
| Forward Current                    | I <sub>F</sub>  | 30                    | mA   |
| Peak Forward Current* <sup>1</sup> | I <sub>FP</sub> | 150                   | mA   |
| Reverse Voltage                    | V <sub>R</sub>  | 5                     | V    |
| Operating Temperature              | Topr            | -40°C~80°C            |      |
| Storage Temperature                | Tstg            | -40°C~85°C            |      |
| Soldering Temperature              | Tsol            | 260°C (for 5 seconds) |      |

\*<sup>1</sup>Condition for I<sub>FP</sub> is pulse of 1/10 duty and 0.1msec width.

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

| Parameter                | Symbol            | Condition            | Min. | Typ. | Max. | Unit  |
|--------------------------|-------------------|----------------------|------|------|------|-------|
| Forward Voltage          | V <sub>F</sub>    | I <sub>F</sub> =20mA | -    | 2.1  | 2.6  | V     |
| Luminous Intensity       | I <sub>v</sub>    | I <sub>F</sub> =20mA | -    | 3.5  | -    | mcd   |
| Reverse Current          | I <sub>R</sub>    | V <sub>R</sub> =5V   | -    | -    | 100  | μA    |
| Peak Wave Length         | λ <sub>p</sub>    | I <sub>F</sub> =20mA | -    | 585  | -    | nm    |
| Dominant Wave Length     | λ <sub>d</sub>    | I <sub>F</sub> =20mA | -    | 588  | -    | nm    |
| Spectral Line Half-width | Δλ                | I <sub>F</sub> =20mA | -    | 37   | -    | nm    |
| Viewing Angle            | 2θ <sub>1/2</sub> | I <sub>F</sub> =20mA | -    | 130  | -    | deg   |
| Radiant Intensity        |                   | I <sub>F</sub> =20mA | -    | -    | -    | mW/sr |
| Chromaticity Coordinates | X                 | I <sub>F</sub> =20mA | -    | 0.56 | -    |       |
|                          | Y                 |                      | -    | 0.43 | -    |       |

● **Typical Electro-Optical Characteristics Curves**

