LEDTRONICS, INC.®

23105 Kashiwa Court, Torrance, CA 90505
Phone: (800) 579-4875 or (310) 534-1505 Fax: (310) 534-1424
E-mail: webmaster@ledtronics.com
Website: http://www.ledtronics.com

# CL120TY3B

## Yellow

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

| |
|---|
| DWG BY:<br>BL / GP<br>12-07-07 |
| CHK BY:<br>PL<br>12-11-07 |
| QA:<br>__<br>__-__-__ |
| MFG:<br>__<br>__-__-__ |
| REVISION LTR: -<br><br>12-07-07 |



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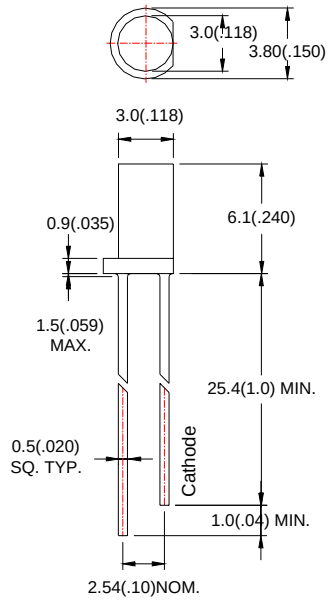
## ● Features:

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 ±0.25mm (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℃)

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Power Dissipation | Pd | 80 | mW |
| Forward Current | $I_F$ | 30 | mA |
| Peak Forward Current*[1] | $I_{FP}$ | 150 | mA |
| Reverse Voltage | $V_R$ | 5 | V |
| Operating Temperature | Topr | -40℃~80℃ | |
| Storage Temperature | Tstg | -40℃~85℃ | |
| Soldering Temperature | Tsol | 260℃(for 5 seconds) | |

*[1]Condition for $I_{FP}$ is pulse of 1/10 duty and 0.1msec width.



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## ● Electrical and optical characteristics(Ta=25℃)

| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Forward Voltage | $V_F$ | $I_F$=20mA | - | 2.1 | 2.6 | V |
| Luminous Intensity | Iv | $I_F$=20mA | - | 3.5 | - | mcd |
| Reverse Current | $I_R$ | $V_R$=5V | - | - | 100 | μA |
| Peak Wave Length | λp | $I_F$=20mA | - | 585 | - | nm |
| Dominant Wave Length | λd | $I_F$=20mA | - | 588 | - | nm |
| Spectral Line Half-width | Δλ | $I_F$=20mA | - | 37 | - | nm |
| Viewing Angle | $2\theta_{1/2}$ | $I_F$=20mA | - | 130 | - | deg |
| Radiant Intensity | | $I_F$=20mA | - | - | - | mW/sr |
| Chromaticity Coordinates | X | $I_F$=20mA | - | 0.56 | - | |
| | Y | | - | 0.43 | - | |

## ● Typical Electro-Optical Characteristics Curves

Fig.1 Relative intensity vs. Wavelength

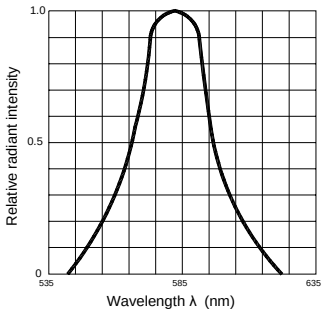



Fig.2 Forward current derating curve vs. Ambient temperature

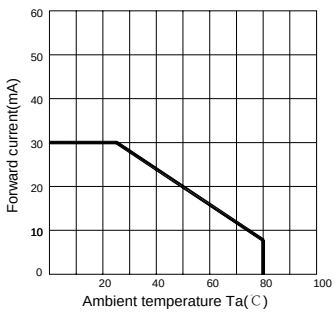



Fig.3 Forward current vs. Forward voltage

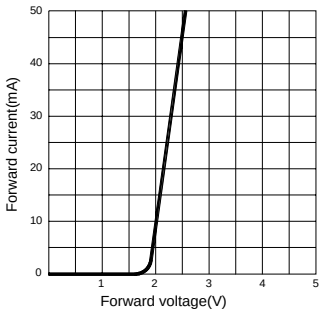



Fig.4 Relative luminous intensity vs. Ambient temperature

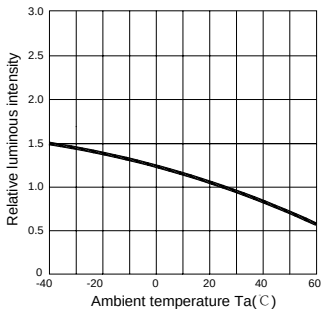



Fig.5 Relative luminous intensity vs. Forward current

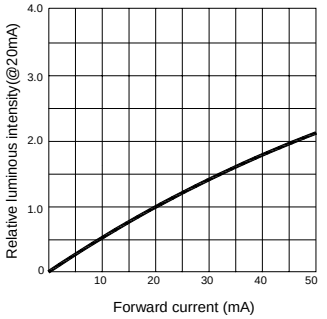
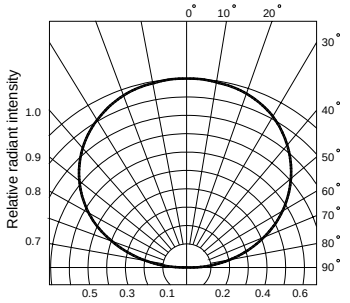



Fig.6 Radiation diagram






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