

# **L200TG5B**

## Hi-Eff Green

5mm, Flanged Cylindrical, 8.6mm Height  
45° viewing angle

DWG BY:

BL / GP

02-12-07

CHK BY:

PL

02-13-07

QA:

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MFG:

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REVISION LTR: -

02-12-07

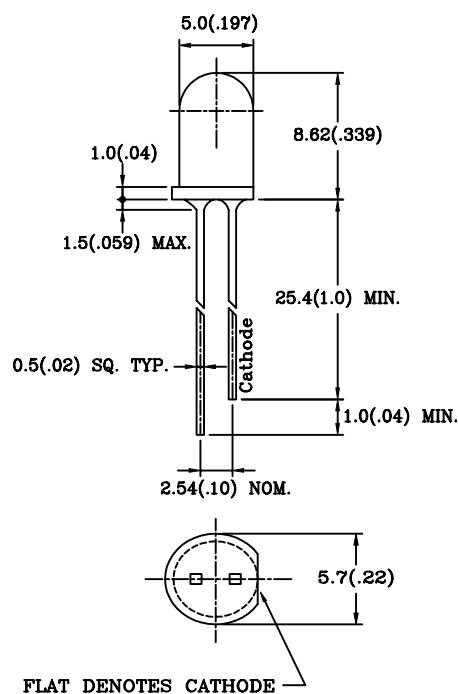
## ● Features:

1. Chip material: Gap/Gap
2. Emitted color : Hi-Eff Green
3. Lens Appearance : Green Diffused
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 5mm diameter package
9. 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  $\pm 0.25$ 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          | $V_F$           | $I_F=20\text{mA}$ | -    | 2.2  | 2.6  | V                |
| Luminous Intensity       | $I_v$           | $I_F=20\text{mA}$ | -    | 60   | -    | mcd              |
| Reverse Current          | $I_R$           | $V_R=5\text{V}$   | -    | -    | 100  | $\mu\text{A}$    |
| Peak Wave Length         | $\lambda_p$     | $I_F=20\text{mA}$ | 560  | 565  | 570  | nm               |
| Dominant Wave Length     | $\lambda_d$     | $I_F=20\text{mA}$ | 565  | 570  | 574  | nm               |
| Spectral Line Half-width | $\Delta\lambda$ | $I_F=20\text{mA}$ | -    | 29   | -    | nm               |
| Viewing Angle            | $2\theta_{1/2}$ | $I_F=20\text{mA}$ | -    | 45   | -    | deg              |
| Radiant Intensity        |                 | $I_F=20\text{mA}$ | -    | -    | -    | $\mu\text{W/sr}$ |
| Chromaticity Coordinates | X               | $I_F=20\text{mA}$ | -    | 0.43 | -    |                  |
|                          | Y               |                   | -    | 0.56 | -    |                  |

● **Typical Electro-Optical Characteristics Curves**

