

# L565-\_\_ \_\_ Yellow Green LED Lamp

This series of L565-\_\_ \_\_ is an GaP LED mounted on a lead frame with a clear epoxy lens. On forward bias, it emits a band of visible light that peaks 565nm.

## 1) Specifications

- |                     |                   |
|---------------------|-------------------|
| (1) Chip material   | GaP               |
| (2) Peak wavelength | 565nm typ.        |
| (3) Package         | Clear epoxy resin |
| (4) Lead frame      | Soldered          |

## 2) Absolute Maximum Ratings

| Item                  | Symbol | Maximum Rated Value | Unit | Ambient Temperature |
|-----------------------|--------|---------------------|------|---------------------|
| Power Dissipation     | PD     | 85                  | mW   | Ta=25°C             |
| Forward Current       | IF     | 30                  | mA   | Ta=25°C             |
| Reverse Voltage       | VR     | 5                   | V    | Ta=25°C             |
| Operating Temperature | TOPR   | -30 ~ +85           | °C   | Ta=25°C             |
| Storage Temperature   | TSTG   | -30 ~ +100          | °C   |                     |
| Soldering Temperature | TSOL   | 260                 | °C   |                     |

## 3) Electro-Optical Characteristics [Ta=25°C]

| Item                 | Symbol | Condition | Minimum | Typical | Maximum | Unit |
|----------------------|--------|-----------|---------|---------|---------|------|
| Forward Voltage      | VF     | IF=20mA   |         | 2.2     | 2.4     | V    |
| Reverse Current      | IR     | VR=5V     |         |         | 10      | uA   |
| Total Radiated Power | PO     | IF=20mA   |         | 0.2     |         | mW   |
| Peak Wavelength      | λP     | IF=20mA   | 555     | 565     | 575     | nm   |
| Half Width           | Δλ     | IF=20mA   |         | 25      |         | nm   |

## 4) Characteristics of Brightness [Ta=25°C]

| Type    | Viewing Half Angle | Brightness IF=20mA unit: mcd |         |         | Outer Dimension |        |
|---------|--------------------|------------------------------|---------|---------|-----------------|--------|
|         |                    | Minimum                      | Typical | Maximum | Dimension       | Figure |
| L565-01 | ±10°               |                              | 600     |         | φ5              | 1      |
| L565-02 | ±5°                |                              |         |         | φ5              | 2      |
| L565-03 | ±15°               |                              | 400     |         | φ5              | 3      |
| L565-04 | ±20°               |                              | 300     |         | φ5              | 4      |
| L565-05 | ±40°               |                              |         |         | φ5              | 5      |
| L565-06 | ±6°                |                              | 1000    |         | φ5              | 6      |
| L565-09 | ±25°(Long)         |                              | 400     |         | φ5              | 7      |
|         | ±15°(Short)        |                              |         |         |                 |        |
| L565-31 |                    |                              |         |         | φ3              | 8      |
| L565-33 | ±15°               |                              | 200     |         | φ3              | 9      |
| L565-34 |                    |                              |         |         | φ3              | 10     |
| L565-36 | ±30°               |                              | 150     |         | φ3              | 11     |
| L565-41 |                    |                              |         |         | φ4              | 12     |
| L565-42 |                    |                              |         |         | φ4              | 12     |

‡ Brightness is measured by Tektronix J-16.

‡ Total Radiated Power is measured by Photodyne #500.