

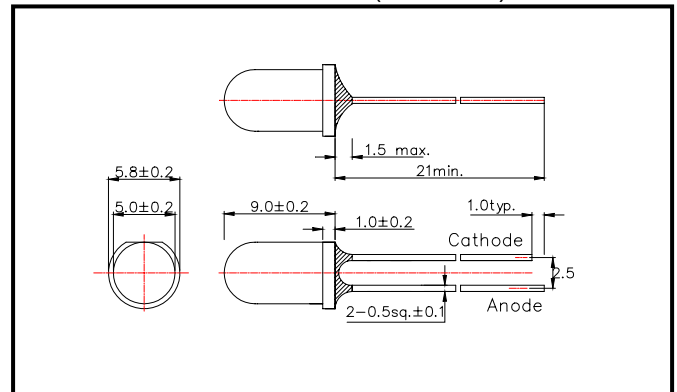
L505-01U Bluish Green LED Lamp

L505-01U is an InGaN LED mounted on a lead frame with a clear epoxy lens. On forward bias, it emits a band of visible light, which peaks 505nm.

◆ Specifications

| | |
|---------------------|-----------------------|
| 1) Product Name | Bluish Green LED Lamp |
| 2) Type No. | L505-01U |
| 3) Chip | |
| (1) Chip Material | InGaN |
| (2) Peak Wavelength | 505nm typ. |
| 4) Package | |
| (1) Type | φ5mm clear molding |
| (2) Resin Material | Epoxy Resin |
| (3) Lead Frame | Soldered |

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings

| Item | Symbol | Maximum Rated Value | Unit | Ambient Temperature |
|-----------------------|-----------|---------------------|------------------|------------------------|
| Power Dissipation | P_D | 120 | mW | $T_a=25^\circ\text{C}$ |
| Forward Current | I_F | 30 | mA | $T_a=25^\circ\text{C}$ |
| Reverse Voltage | V_R | 5 | V | $T_a=25^\circ\text{C}$ |
| Operating Temperature | T_{OPR} | -30 ~ +85 | $^\circ\text{C}$ | |
| Storage Temperature | T_{STG} | -30 ~ +100 | $^\circ\text{C}$ | |
| Soldering Temperature | T_{SOL} | 260 | $^\circ\text{C}$ | |

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

◆ Electro-Optical Characteristics

| Item | Symbol | Condition | Minimum | Typical | Maximum | Unit |
|----------------------|-----------------|-------------------|---------|---------|---------|---------------|
| Forward Voltage | V_F | $I_F=20\text{mA}$ | | 3.5 | 4.3 | V |
| Reverse Current | I_R | $V_R=5\text{V}$ | | | 10 | μA |
| Total Radiated Power | P_O | $I_F=20\text{mA}$ | | 1.3 | | mW |
| Brightness | I_V | $I_F=20\text{mA}$ | | 2000 | | mcd |
| Peak Wavelength | λ_P | $I_F=20\text{mA}$ | 495 | 505 | 515 | nm |
| Half Width | $\Delta\lambda$ | $I_F=20\text{mA}$ | | 30 | | nm |
| Viewing Half Angle | $\theta_{1/2}$ | $I_F=20\text{mA}$ | | ± 9 | | deg. |

‡Brightness is measured by Tektronix J-16.

‡Radiant Intensity is measured by Ando Optical Multi Meter AQ2140 & AQ2741