

KLL-3EG

KLL-3EG is a high bright InGaN Green LED, and has the optimized optical characteristics.

Features

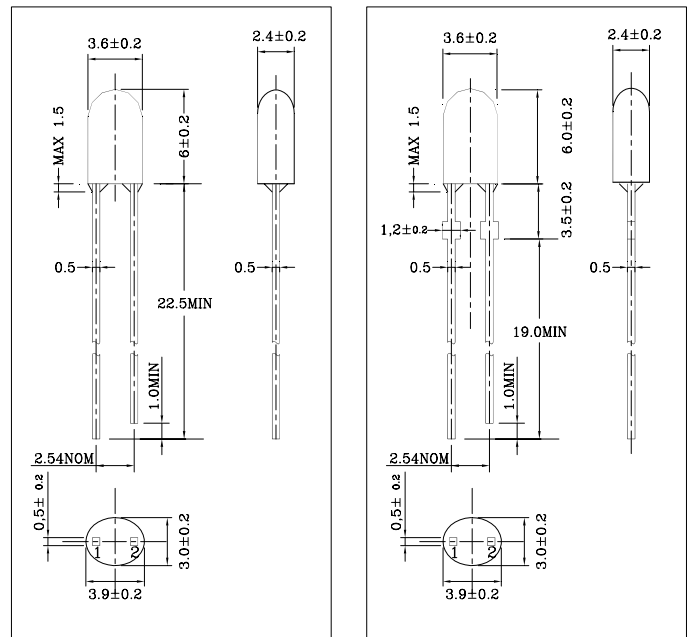
- Transparent epoxy lens
- High Optical Output

Applications

- Display
- Indicator
- Signage

DIMENSIONS

Unit : [mm]



Maximum Ratings

[Ta=25°C]

| Parameter | Symbol | Ratings | Unit |
|--------------------------|------------|------------|------|
| Reverse voltage | V_R | 5 | V |
| Forward current | I_F | 30 | mA |
| Pulse forward current *1 | I_{FP} | 0.1 | A |
| Power dissipation | P_D | 105 | mW |
| Operating temperature | $T_{opr.}$ | -30 ~ +85 | °C |
| Storage temperature | $T_{stg.}$ | -40 ~ +100 | °C |
| Soldering Temperature *2 | $T_{sol.}$ | 260 | °C |

*1. I_{FP} Measured under duty $\leq 1/10$ @ 1KHz

*2. Soldering time ≤ 5 Sec

Keep the distance more than 3mm from soldering foundation.

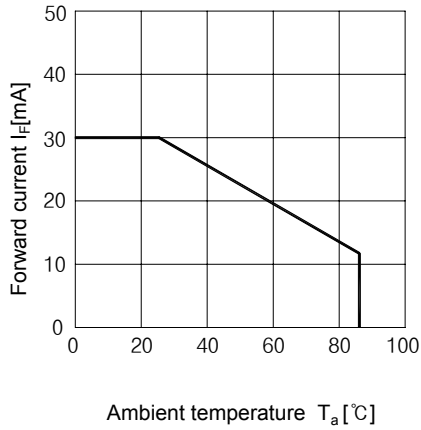
Electro-Optical Characteristics

[Ta=25°C]

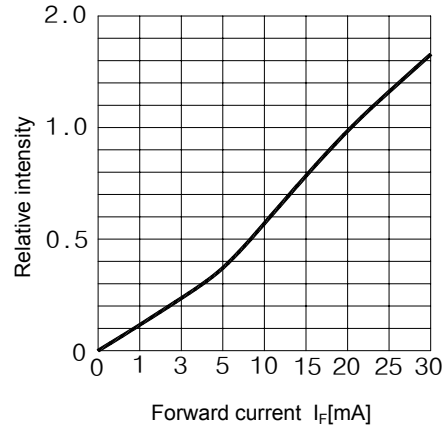
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|--------------------------|-----------------------|---------------|-----|--------|-----|---------|
| Forward voltage | V_F | $I_F = 20$ mA | 3.0 | 3.2 | 3.6 | V |
| Reverse current | I_R | $V_R = 5$ V | - | - | 10 | μ A |
| Luminous Intensity | I_v | $I_F = 20$ mA | 700 | 1200 | - | mcd |
| Peak emission wavelength | λ_P | $I_F = 20$ mA | - | 520 | - | nm |
| Dominant Wave Length | λ_d | $I_F = 20$ mA | 520 | - | 530 | nm |
| Spectral half bandwidth | $\Delta\lambda$ | $I_F = 20$ mA | - | 25 | - | nm |
| Half angle | $2\Delta\theta_{1/2}$ | $I_F = 20$ mA | - | 110/50 | - | deg. |

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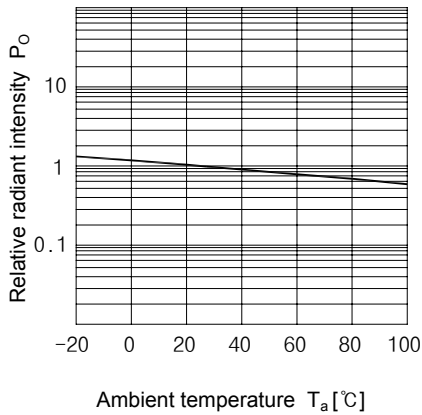
Forward current vs. Ambient temperature



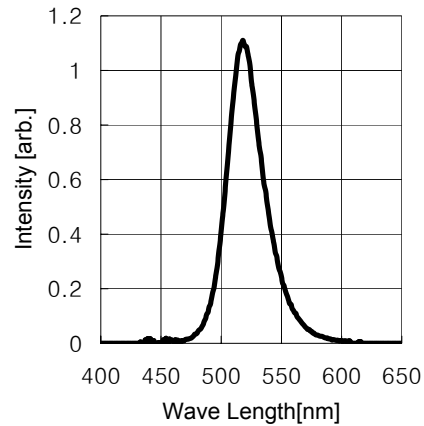
Radiant Intensity vs. Forward current



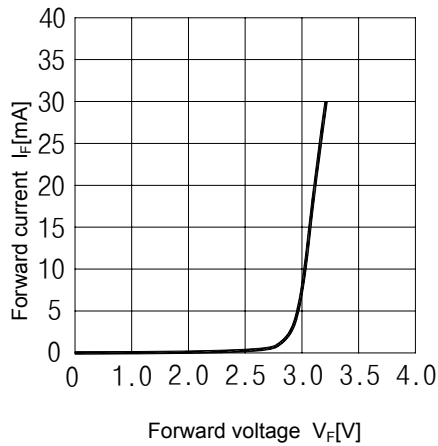
Relative radiant intensity vs. Ambient temperature



Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern

