

GaP/GaP Yellow Green Chip ---TK0111YGU

1. Scope

- The specification applies to GaP LED chips.
- Type : TK0111YGU.

2. Structure

- GaP/GaP yellow green LED chip.
- P/N mesa type.
- Electrode P (anode) side : Aluminum or Gold.
- Electrode N (cathode) side : Gold alloy.

3. Size

- Chip size : $275\mu\text{m} \times 275\mu\text{m}$
- Chip height : $260\mu\text{m} \pm 30\mu\text{m}$
- Pattern drawing : per fig. 1

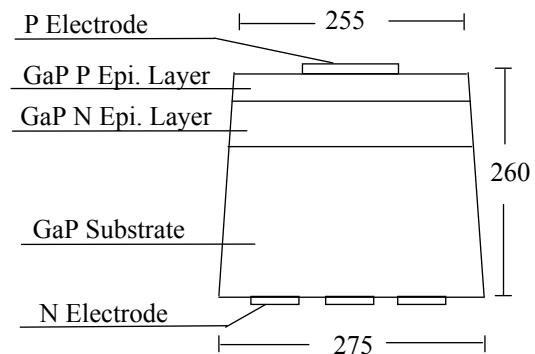
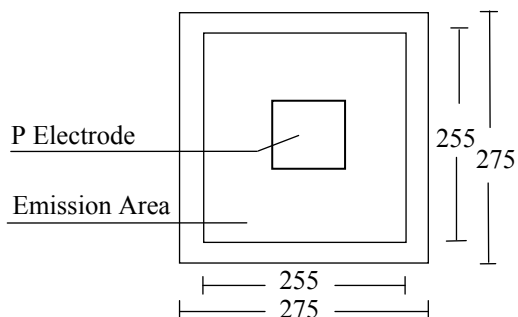
4. Electro-Optical Characteristics

($T_a = +25\text{ }^\circ\text{C}$)

| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|------------------------------|-------------------------|---------------------|------|---------|------|---------------|
| Forward Voltage | V_F | $I_F = 20\text{mA}$ | | 2.25 | 2.40 | V |
| Reverse Current | I_R | $V_R = 5\text{V}$ | | | 10 | μA |
| Luminous Intensity | I_V | $I_F = 20\text{mA}$ | 6.0 | ※ | | mcd |
| Wavelength | λ_p / λ_d | $I_F = 20\text{mA}$ | | 568/572 | | nm |
| Spectrum Width of Half Value | $\Delta \lambda$ | $I_F = 20\text{mA}$ | | 30 | | nm |

- ※
- Rank C : $8.5 \leq \text{avg.} < 10.0$ mcd
 - Rank D : $10.0 \leq \text{avg.} < 11.5$ mcd
 - Rank E : $11.5 \leq \text{avg.} < 13.0$ mcd
 - Rank F : $13.0 \leq \text{avg.} < 15.0$ mcd

- Rank G : $15.0 \leq \text{avg.} < 18.0$ mcd
- Rank H : $\text{avg.} \geq 18.0$ mcd



Unit : μm

fig. 1

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Electro-Optical Characteristics Curve

