

# GaP/GaP Yellow Green Chip ---TK0110YGU

## 1. Scope

- The specification applies to GaP LED chips.
- Type : TK0110YGU.

## 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 :  $250\mu\text{m} \times 250\mu\text{m}$
- Chip height :  $260\mu\text{m} \pm 30\mu\text{m}$
- Pattern drawing : per fig. 1

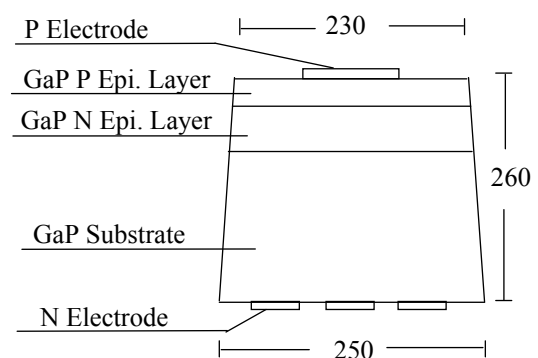
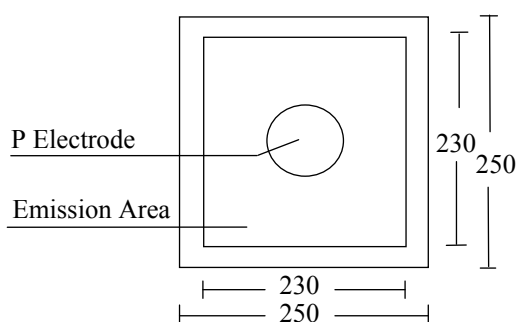
## 4. Electro-Optical Characteristics

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 20\text{mA}$		2.30	2.50	V
Reverse Current	$I_R$	$V_R = 5\text{V}$			10	$\mu\text{A}$
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	4.0	※		mcd
Wavelength	$\lambda_p / \lambda_d$	$I_F = 20\text{mA}$		568/572		nm
Spectrum Width of Half Value	$\Delta \lambda$	$I_F = 20\text{mA}$		30		nm

- ※
- Rank B :  $7.0 \leq \text{avg.} < 8.5$  mcd
  - 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 :  $\text{avg.} \geq 15.0$  mcd



Unit :  $\mu\text{m}$

fig. 1

2012.May



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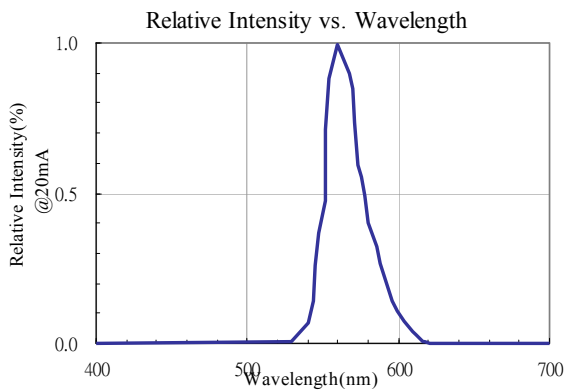
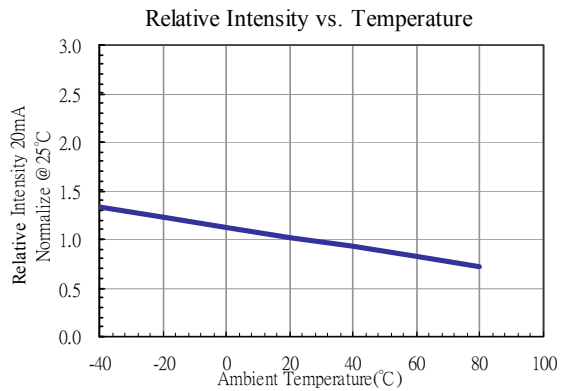
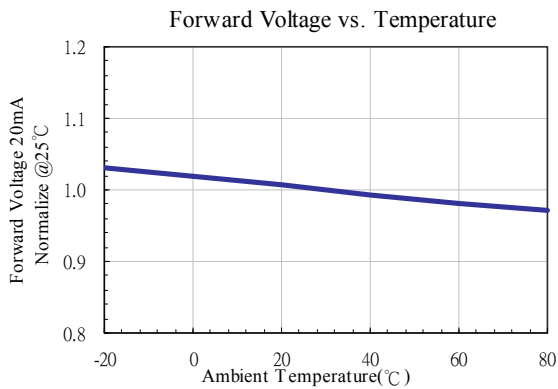
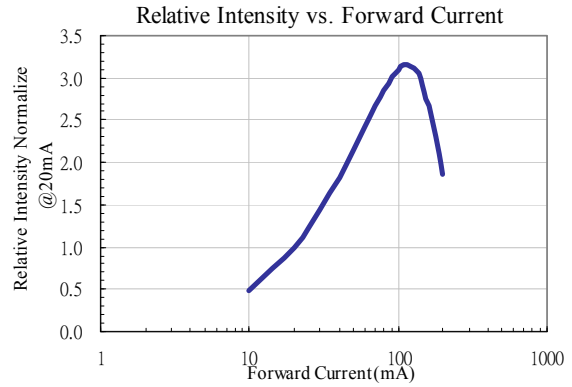
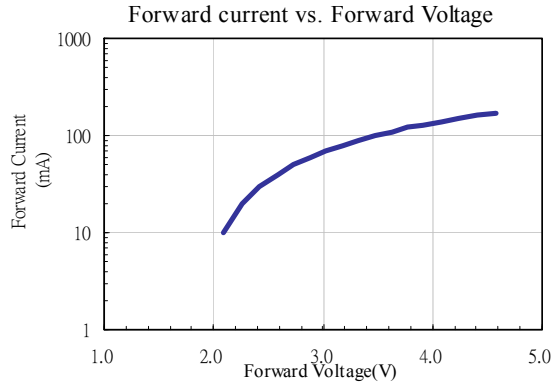
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## Electro-Optical Characteristics Curve



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