

# GaP/GaP Yellow Green Chip ---TK0209YGN

## 1. Scope

- The specification applies to GaP LED chips.
- Type : TK0209YGN.

## 2. Structure

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

## 3. Size

- Chip size :  $225\mu\text{m} \times 225\mu\text{m}$
- Chip height :  $260\mu\text{m} \pm 30\mu\text{m}$
- Pattern drawing : per fig. 1

## 4. Electro-Optical Characteristics

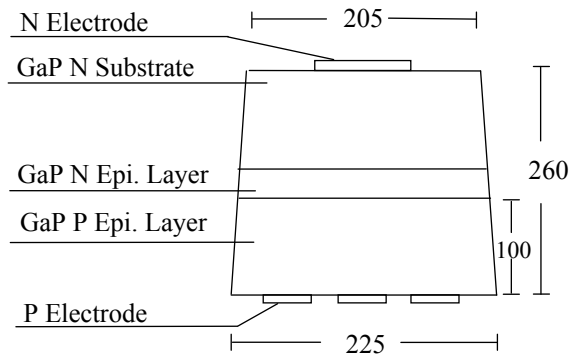
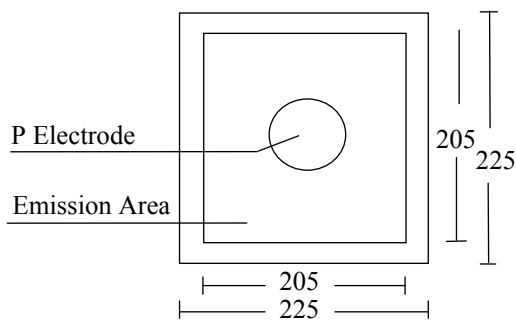
( $T_a = +25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 20\text{mA}$		2.28	2.50	V
Reverse Current	$I_R$	$V_R = 5\text{V}$			10	$\mu\text{A}$
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	3.0	※		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

※ Silver epoxy height must  $< 100\mu\text{m}$  as die mount process

- Rank 5 :  $\text{avg.} < 6.0\text{ mcd}$
- Rank 6 :  $6.0 \leq \text{avg.} < 7.0\text{ mcd}$
- Rank 7 :  $7.0 \leq \text{avg.} < 8.0\text{ mcd}$
- Rank 8 :  $8.0 \leq \text{avg.} < 9.0\text{ mcd}$

- Rank 9 :  $90 \leq \text{avg.} < 10.0\text{mcd}$
- Rank 0 :  $\text{avg.} \geq 10.0\text{ mcd}$



Unit :  $\mu\text{m}$

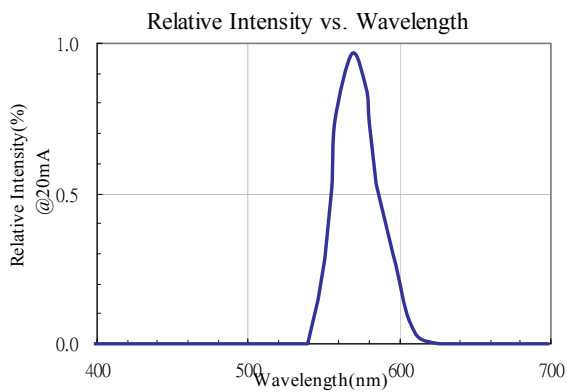
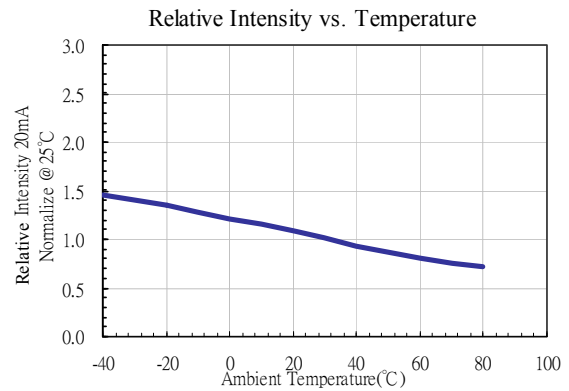
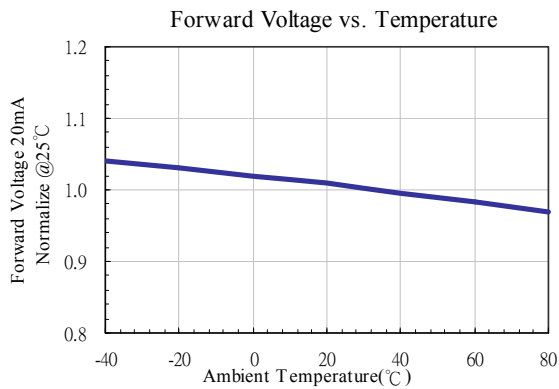
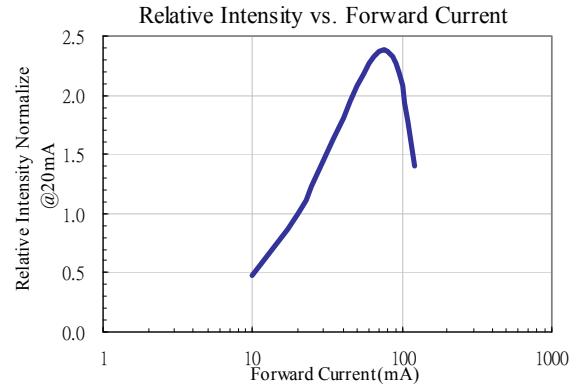
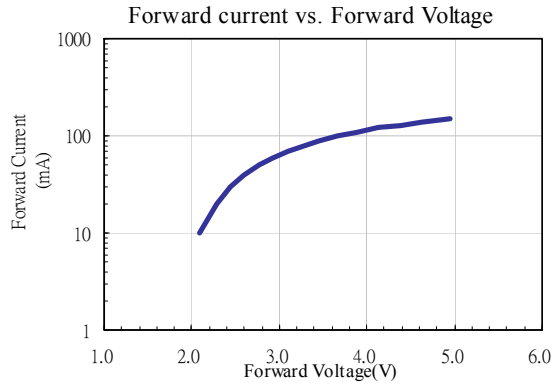
fig. 1

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# GaP/GaP Yellow Green Chip ---TK0209YGN

## Electro-Optical Characteristics Curve



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