

GaP/GaP Yellow Green Chip ---TK0210YGN

1. Scope

- The specification applies to GaP LED chips.
- Type : TK0210YGN.

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

4. Electro-Optical Characteristics

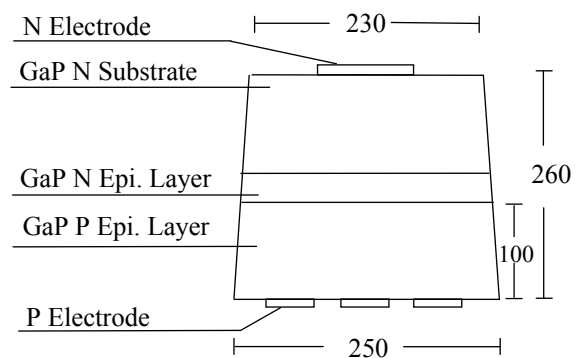
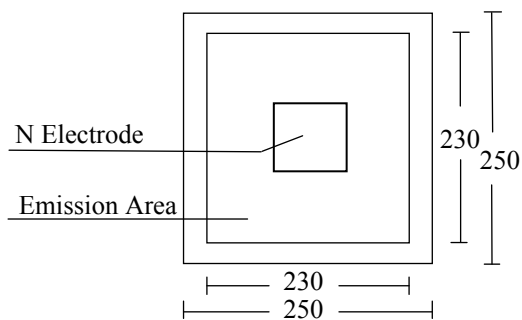
($T_a = +25\text{ }^\circ\text{C}$)

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	μA
Luminous Intensity	I_V	$I_F = 20\text{mA}$	3.0	※		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

※ 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 : μm

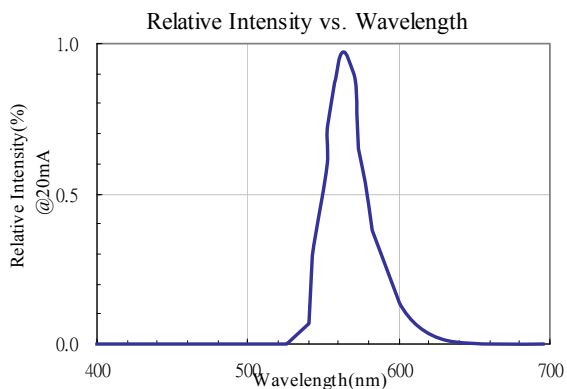
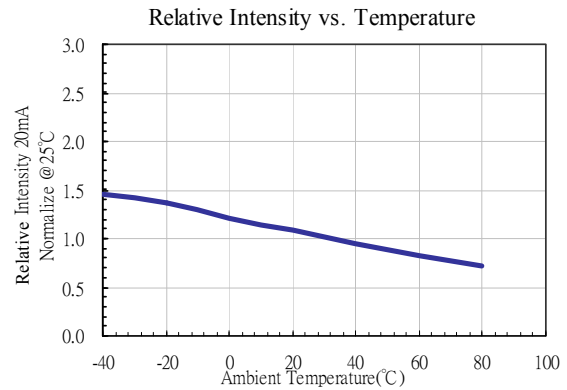
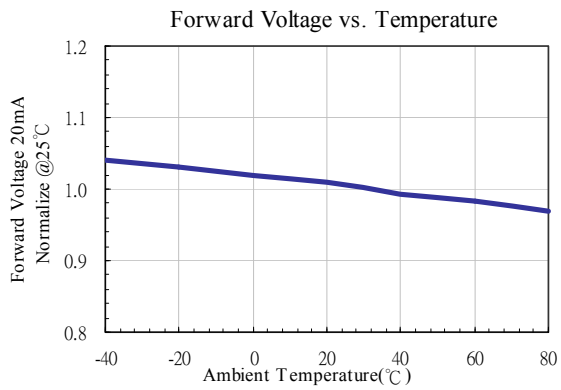
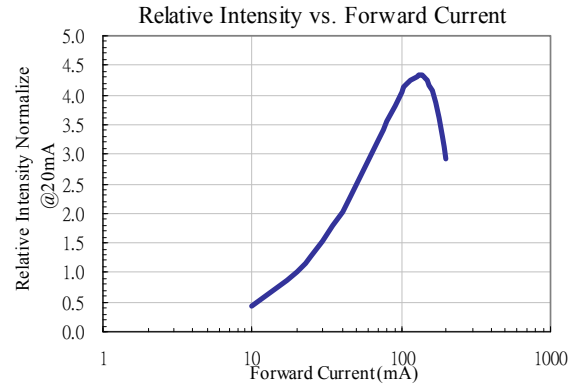
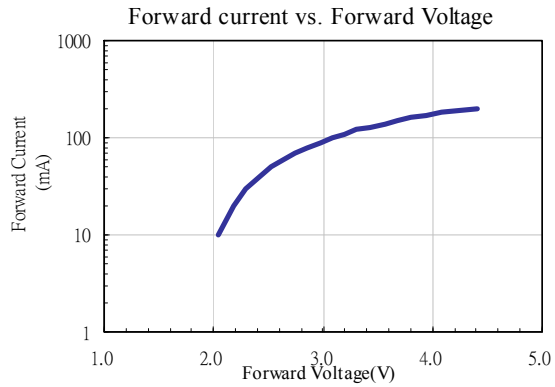
fig. 1

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Electro-Optical Characteristics Curve



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