

# AlGaInP/GaAs Yellow Green Chip ---TK0509YGN

## 1. Scope

- The specification applies to AlGaInP LED chips.
- Type : TK0509YGN.

## 2. Structure

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

## 3. Size

- Chip size : 225 $\mu$ m  $\times$  225 $\mu$ m
- Chip height : 180 $\mu$ m  $\pm$  30 $\mu$ m
- Pattern drawing : per fig. 1

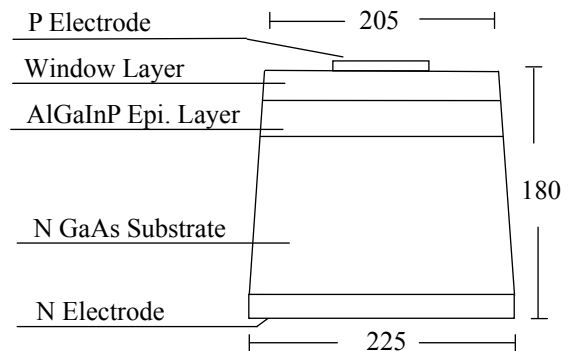
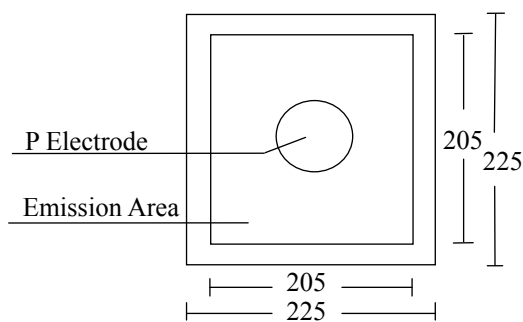
## 4. Electro-Optical Characteristics

(Ta = +25 °C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA		2.00	2.30	V
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> = 10 $\mu$ A	5			V
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> = 20 mA		※		mcd
Wavelength	$\lambda_p / \lambda_d$	I <sub>F</sub> = 20 mA		575/572		nm
Spectrum Width of Half Value	$\Delta \lambda$	I <sub>F</sub> = 20 mA		20		nm

- ※
- Rank C : I<sub>v</sub> min.  $\geq$  10.0
  - Rank D : I<sub>v</sub> min.  $\geq$  20.0
  - Rank E : I<sub>v</sub> min.  $\geq$  30.0
  - Rank F : I<sub>v</sub> min.  $\geq$  40.0

- Rank G : I<sub>v</sub> min.  $\geq$  50.0
- Rank H : I<sub>v</sub> min.  $\geq$  60.0



Unit :  $\mu$ m

fig. 1

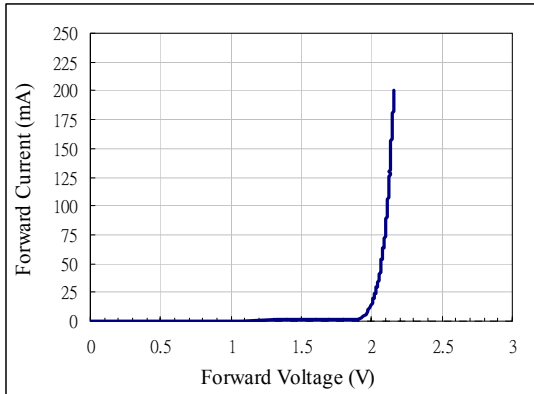
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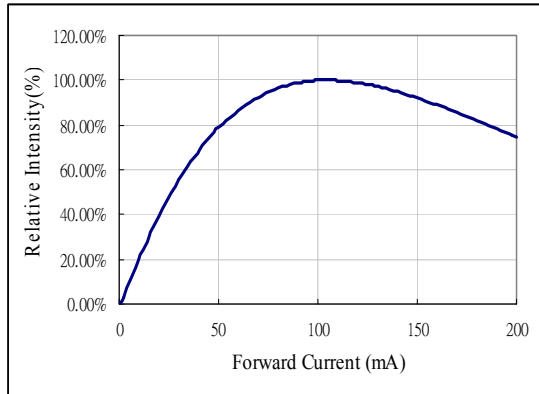
# AlGaInP/GaAs Yellow Green Chip ---TK0509YGN

## Electro-Optical Characteristics Curve

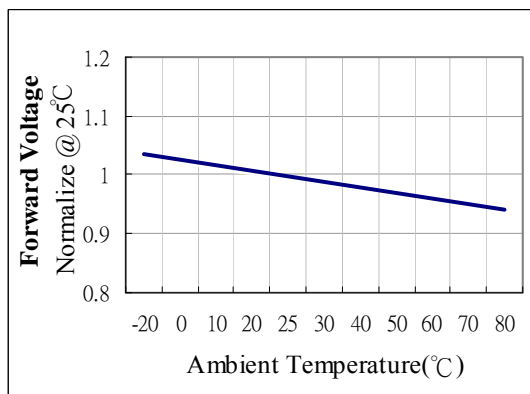
Forward current vs. Forward voltage



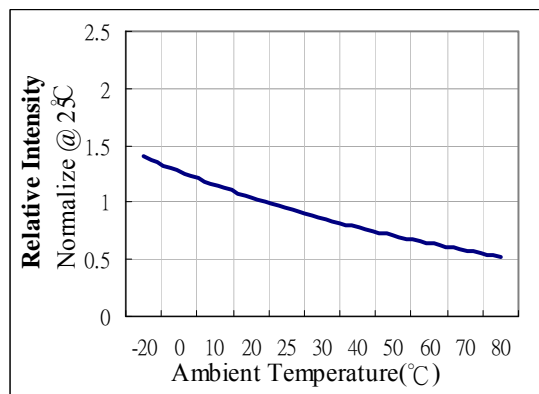
Relative intensity vs. Forward current



Forward voltage vs. Temperature



Relative intensity vs. Temperature



Relative intensity vs. Wavelength

