

AlGaInP/GaAs Deep Red Chip ---TK0708DRK

1. Scope

- The specification applies to AlGaInP LED chips.
- Type : TK0708DRK.

2. Structure

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

3. Size

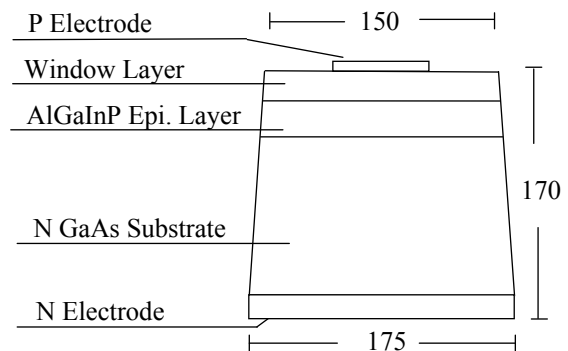
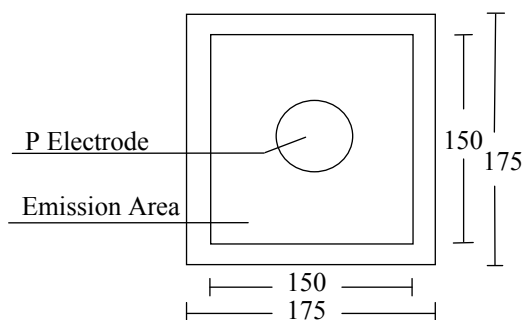
- Chip size : $175\mu\text{m} \times 175\mu\text{m}$
- Chip height : $170\mu\text{m} \pm 30\mu\text{m}$
- Pattern drawing : per fig. 1

4. Electro-Optical Characteristics

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{ mA}$		2.00	2.30	V
Reverse Voltage	V_R	$I_R = 10\text{ }\mu\text{A}$	5			V
Luminous Intensity	I_V	$I_F = 20\text{ mA}$	15	※		mcd
Wavelength	λ_p / λ_d	$I_F = 20\text{ mA}$		650/639		nm
Spectrum Width of Half Value	$\Delta \lambda$	$I_F = 20\text{ mA}$		20		nm

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- Rank C : $\text{min.} \geq 15.0, 20.0 \leq \text{avg.} < 25.0$
 - Rank D : $\text{min.} \geq 20.0, 25.0 \leq \text{avg.} < 35.0$
 - Rank E : $\text{min.} \geq 25.0, 35.0 \leq \text{avg.} < 45.0$



Unit : μm

fig. 1

2012.May



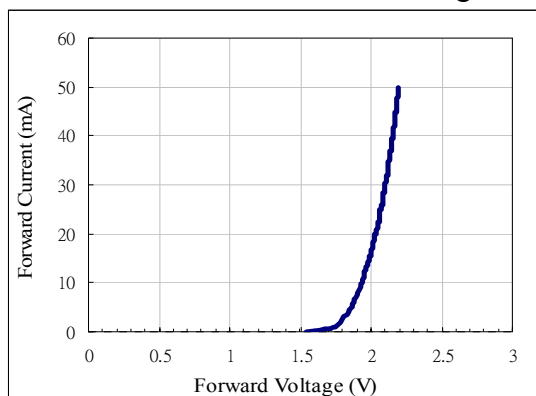
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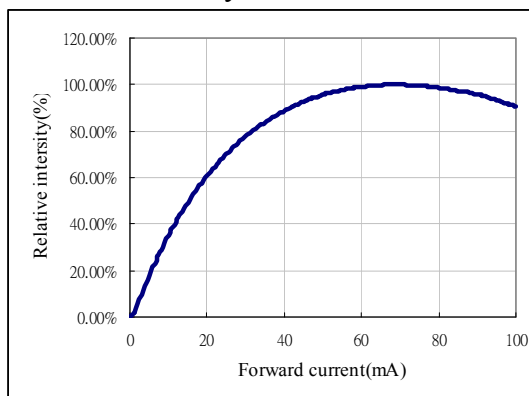
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Electro-Optical Characteristics Curve

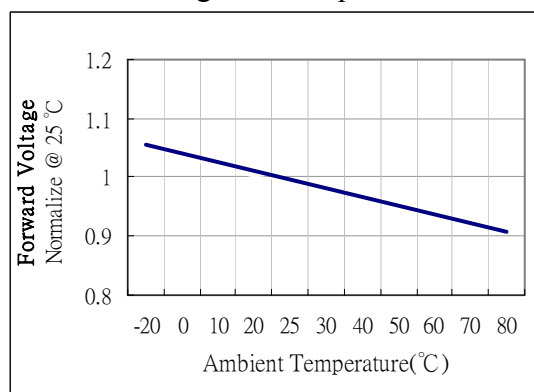
Forward current vs. Forward voltage



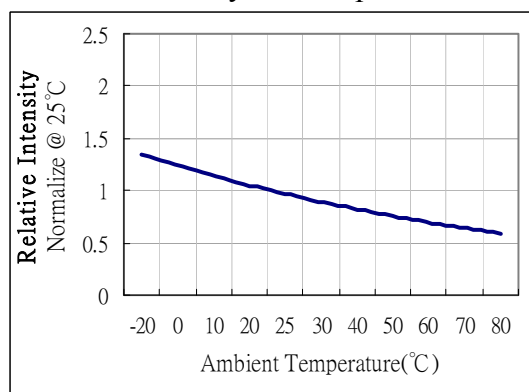
Relative intensity vs. Forward current



Forward voltage vs. Temperature



Relative intensity vs. Temperature



Relative intensity vs. Wavelength

