

# AlGaInP/GaAs Red Orange Power Chip ---TK 540UOL

## 1. Scope

- The specification applies to AlGaInP LED power chips.
- Type : TK 540UOL.

## 2. Structure

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

## 3. Size

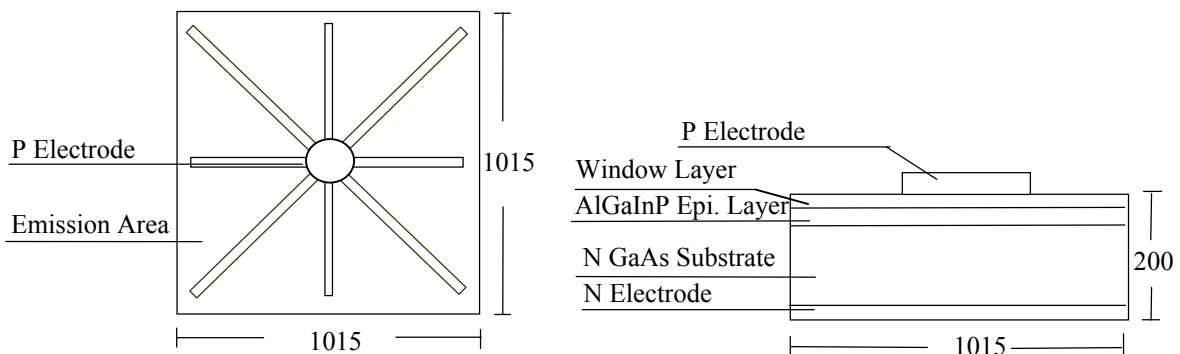
- Chip size : 1015  $\mu\text{m}$   $\times$  1015  $\mu\text{m}$  (40 mil  $\times$  40 mil)
- Chip height : 200  $\mu\text{m}$   $\pm$  30  $\mu\text{m}$
- Pattern drawing : per fig. 1

## 4. Electro-Optical Characteristics

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 20\text{ mA}$		1.80	2.00	V
		$I_F = 350\text{ mA}$		2.10	2.30	V
Reverse Voltage	$V_R$	$I_R = 10\ \mu\text{A}$	5			V
Luminous Intensity	$I_V$	$I_F = 20\text{ mA}$	90	※		mcd
		$I_F = 350\text{ mA}$	550	※		mcd
Wavelength	$\lambda_p / \lambda_d$	$I_F = 20\text{ mA}$		630/625		nm
Spectrum Width of Half Value	$\Delta \lambda$	$I_F = 20\text{ mA}$		20		nm

- ※ Rank L •  $\text{min} \geq 90.0$  ,  $105.0 \leq \text{avg.} < 115.0$   
 Rank M •  $\text{min} \geq 90.0$  ,  $115.0 \leq \text{avg.} < 125.0$   
 Rank N •  $\text{min} \geq 110.0$  ,  $125.0 \leq \text{avg.} < 135.0$



www.DataSheet4U.com Unit :  $\mu\text{m}$

fig. 1

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