



東莞洲磊電子有限公司  
Uni Light Technology Inc.

## GaAsP Orange Chip TC610HOLUK

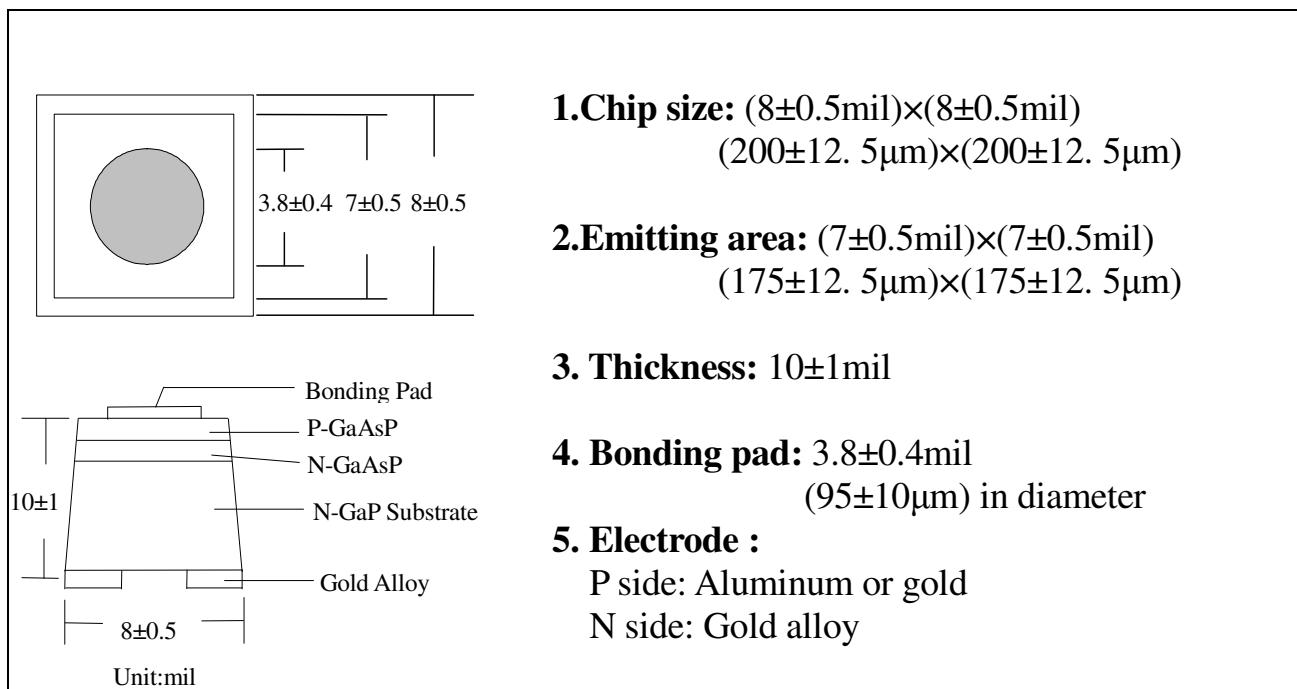
### 1. Product Description:

TC610HOLUK is a orange LED chip. The chips have optimized VPE technology process to perform high brightness in this field. The production process is very matured and stabilized in mass Production. The uniformity of the chips is highly centralized in a Limited range , which makes the product quality and production Efficiency outstanding. The chip is friendly to adapt in various Applications.

### 2. Features:

- ◆ Ultra Orange
- ◆ GaAsP/GaP
- ◆ VPE Process
- ◆ High Stability
- ◆ High Quality
- ◆ Various Applications

### 3. Chip Dimensions and Structure:



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#### 4.Electro-optical Characteristics at 25°C:

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITION
Forward Voltage	V <sub>F</sub>	-	2.0	2.40	V	I <sub>F</sub> = 20mA
Reverse Voltage	V <sub>R</sub>	5	-	-	V	I <sub>R</sub> =10μA
Leakage current	I <sub>r</sub>	-	-	1	μA	V <sub>r</sub> =9V
Wavelength	λ <sub>D</sub>	623	627	631	nm	I <sub>F</sub> =20mA
Luminous Intensity	I <sub>v</sub>	-	※	-	mcd	I <sub>F</sub> =20mA

- Rank 0 : 10~10.99mcd
- Rank 2 : 12~12.99mcd
- Rank 4 : 14~14.99mcd

- Rank 1 : 11~11.99mcd
- Rank 3 : 13~13.99mcd
- Rank 5 : 15~15.99mcd

#### 5.Absolute Maximum Ratings:

Parameter	Symbol	Condition	Rating
Forward DC current	I <sub>f</sub>	T <sub>a</sub> =25°C	≤30mA
Junction Temp	T <sub>j</sub>	---	≤115°C
Reverse Voltage	V <sub>r</sub>	T <sub>a</sub> =25°C	≤10V
Storage Temp	T <sub>stg</sub>	chip	-40~85°C
		chip on tape/storage	0~30°C RH ≤ 60%
		chip on tape/transportation	-20~50°C
Temp during packaging	---	---	Max 265°C (≤15sec)

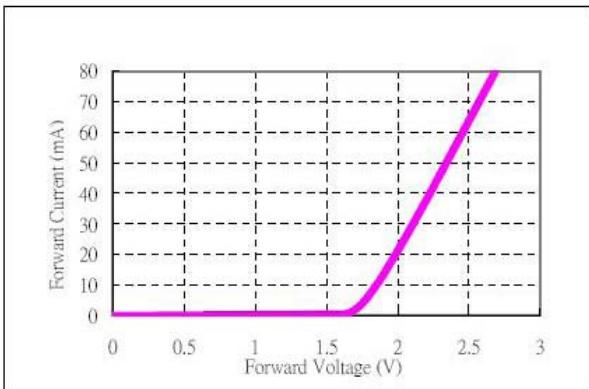
##### Note:

- 1) Using the maximum rated current or voltage, is used as a single chip, and is a limit on the PCB board and no glue, independent constant-current source driver. Higher than the rated conditions, P-N junction temperature higher than 115 °C can lead to damage of the LED chip.
- 2) Under the condition of maximum 265°C high temperature used only for 15 seconds, high temperature or time is too long, can cause damage to the chip.
- 3) The best storage conditions of Blue tape is placed in the shade dry environment, Indoor temperature is not higher than 30°C, Relative humidity below 60%, shelf life is 1 year.

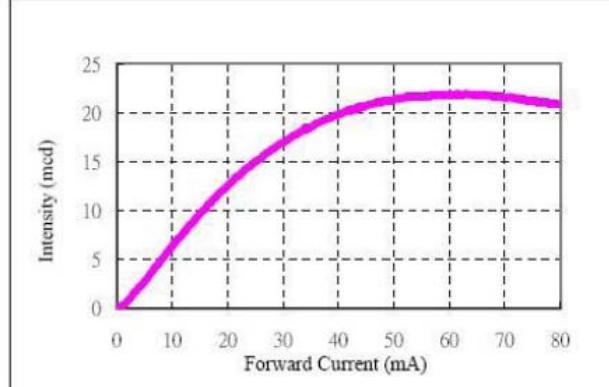
## 6.Characteristic Curves:

**Remark:** These are the typical TC610HOLUK measured values, along with different brightness and wavelength, the actual value is slightly different.

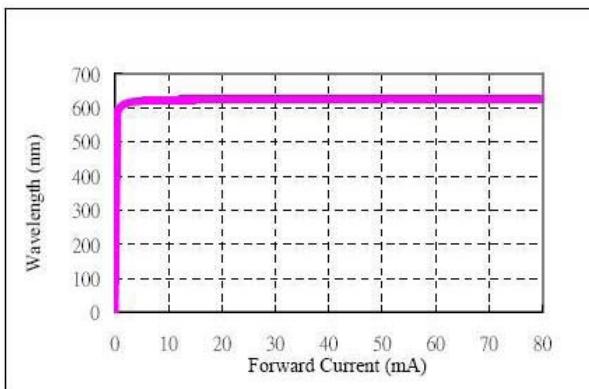
**Fig1. Forward Current vs. Forward Voltage:**



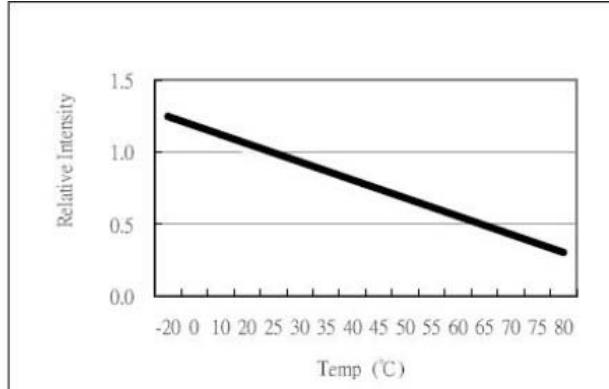
**Fig2. Relative Intensity:**



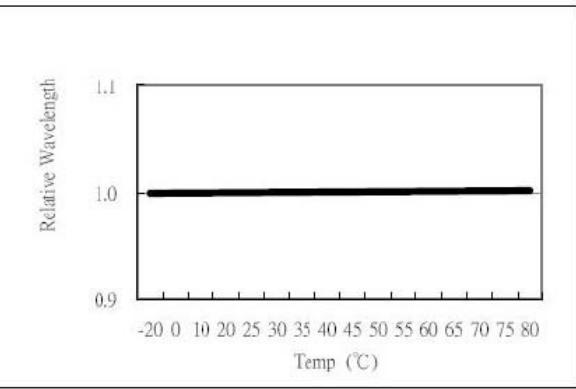
**Fig3. Forward Current vs. Relative Wavelength:**



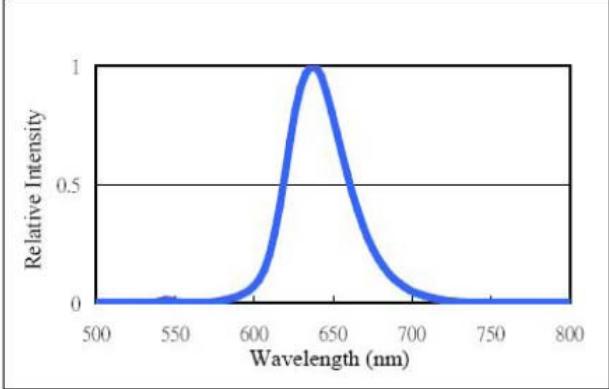
**Fig4. Temperature vs. Relative Intensity:**



**Fig5. Temperature vs. Relative Wavelength:**



**Fig6. Wavelength range:**



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