

TOSHIBA LED Lamp InGaAlP Orange Light Emission

# TLOU172P

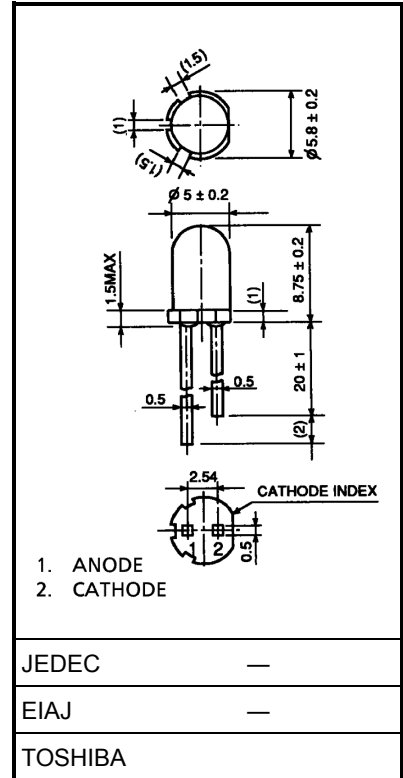
## Panel Circuit Indicator

- 5mm diameter (T1-3 / 4)
- InGaAlP orange LED
- Colored transparent lens
- Low drive current, high intensity orange light emission
- All plastic molded lens, provides an excellent on-off contrast ratio.
- Fast response time, capable of pulse operation.
- Without stand-offs

## Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Forward current (DC)	I <sub>F</sub>	30	mA
Reverse voltage	V <sub>R</sub>	4	V
Power dissipation	P <sub>D</sub>	72	mW
Operating temperature range	T <sub>opr</sub>	-30~85	°C
Storage temperature range	T <sub>stg</sub>	-40~120	°C

Unit in mm



Weight: 0.31 g

## Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_F$	$I_F = 20\text{mA}$	—	2.0	2.4	V
Reverse current	$I_R$	$V_R = 4\text{V}$	—	—	50	$\mu\text{A}$
Luminous intensity	$I_V$	$I_F = 20\text{mA}$ (Note)	153	800	—	mcd
Peak emission wavelength	$\lambda_p$	$I_F = 20\text{mA}$	—	612	—	nm
Spectral line half width	$\Delta\lambda$	$I_F = 20\text{mA}$	—	15	—	nm
Dominant wavelength	$\lambda_d$	$I_F = 20\text{mA}$	—	605	—	nm

(Note): Lamps are classified into the following ranks according to their luminous intensity.

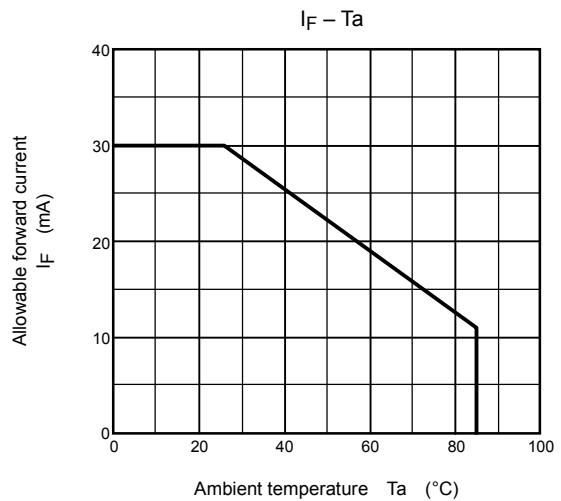
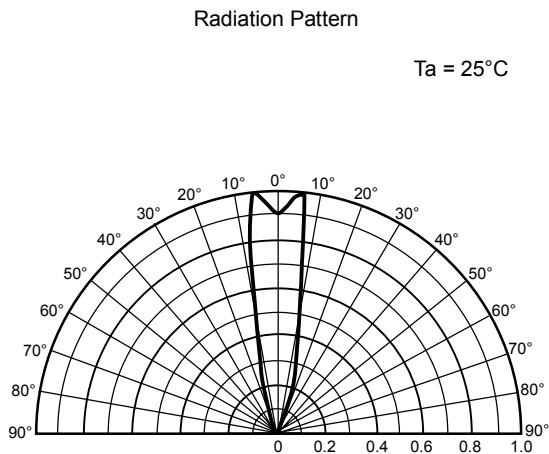
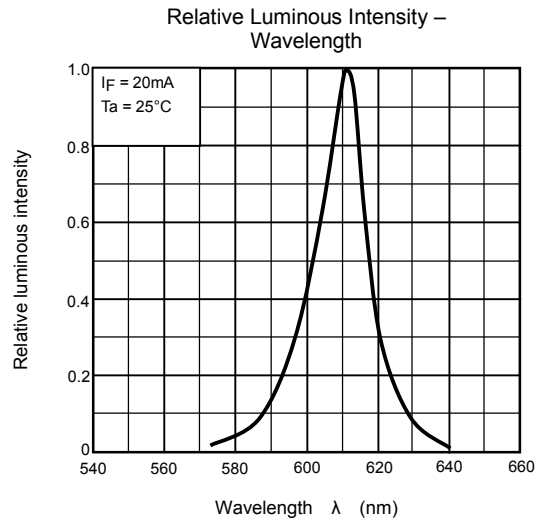
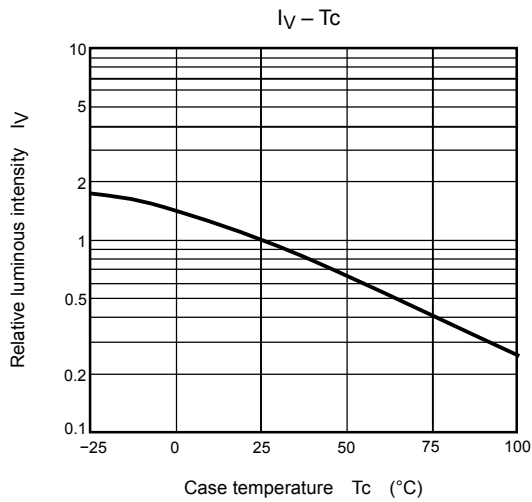
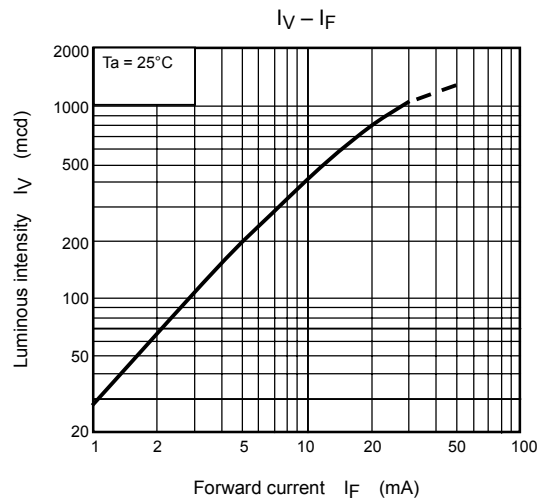
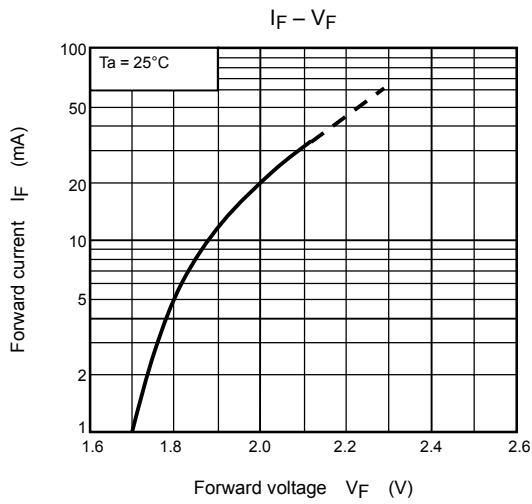
Measurement tolerance for each limit is  $\pm 15\%$ .

P: 180–360mcd, Q: 320–640mcd, R: 560–1120mcd, S: 1000–2000mcd .

## Precaution

Please be careful of the followings

- Soldering temperature: 260°C max      Soldering time: 3s max  
(Soldering portion of lead: Up to 2mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible LED lamp also emits some IR light. If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.



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