Unit: mm

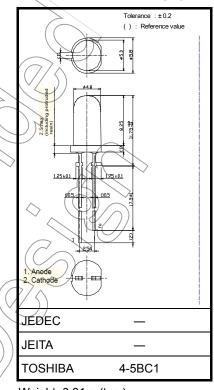
TOSHIBA LED Lamp InGaAlP Yellow Light Emission

# TLYK37T(F)

#### Panel Circuit Indicator

- φ5 mm package
- InGaAlP technology
- Transparent lens
- High intensity light emission
- Excellent low current light output
- Applications: Various types of information panels, backlightings, etc.
- Straight lead type is also available.

TLYK37TP(F)



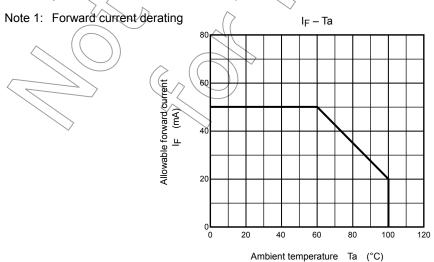
Weight: 0.31 g (typ.)

# Absolute Maximum Ratings (Ta = 25°C)

		/ - \ \ \	
Characteristic	Symbol	Rating	Unit
Forward current	I <sub>F</sub> (Note 1)	50	/_mA
Reverse voltage	VR	4	V
Power dissipation	PD	)) 125	mW
Operating temperature range	Topr	–40 to 100	∕ °c
Storage temperature range	T <sub>stg</sub>	-40 to 120	7,c

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).



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# **Electrical and Optical Characteristics (Ta = 25°C)**

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA	1.8	2.25	2.5	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 4 V	_	_	50	μА
Luminous intensity	ly	I <sub>F</sub> = 20 mA (Note	2) 2720	6800	_	mcd
Peak emission wavelength	λ <sub>P</sub>	I <sub>F</sub> = 20 mA		594	_	nm
Spectral line half width	Δλ	I <sub>F</sub> = 20 mA	(F	) 13	_	nm
Dominant wavelength	λ <sub>d</sub>	I <sub>F</sub> = 20 mA (Note	2) 581	590	595	nm

Note2: Lamps are classified into the following ranks according to their luminous intensity and dominant wavelength. Each packing box includes single luminous Intensity class and single dominant wavelength class.

I<sub>V</sub>\_rank U:2720 to 7360 mcd, V: 4760 to 12900 mcd, W:8500 mcd and over

 $\lambda_d$  \_rank 1:581 to 589 nm, 2: 585 to 592 nm, 3:588 to 595 nm

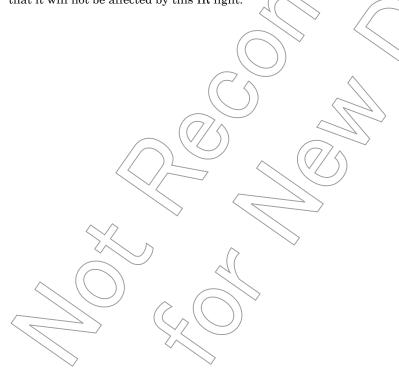
### **Precaution**

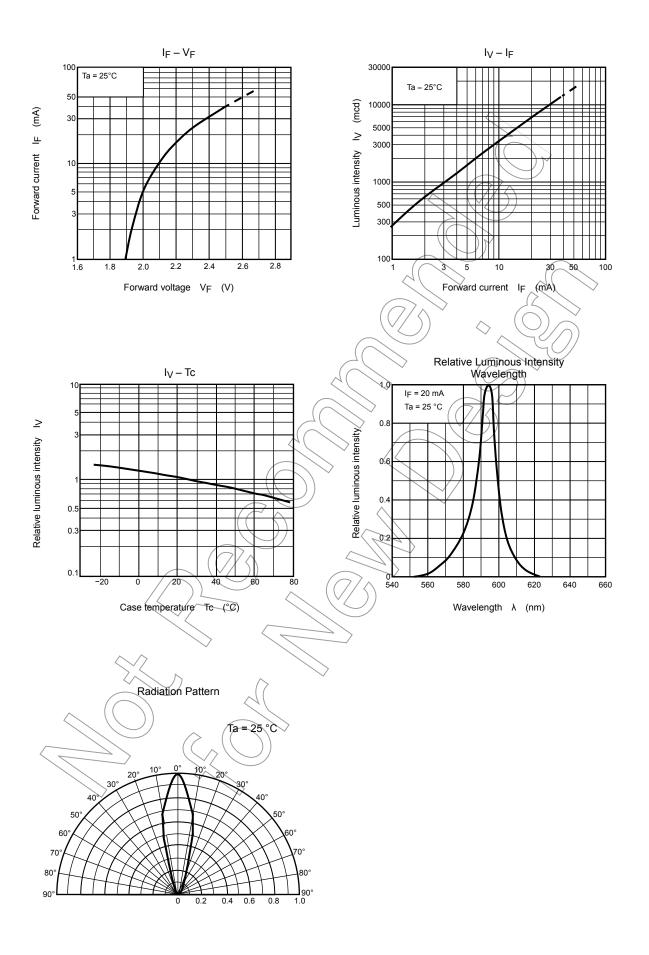
Please be careful of the followings

• Soldering temperature: 260°C max Soldering time: 3 s max (Soldering portion of lead: below the lead stopper of the device)

• If the lead is formed, the lead should be formed up below the lead stopper 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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