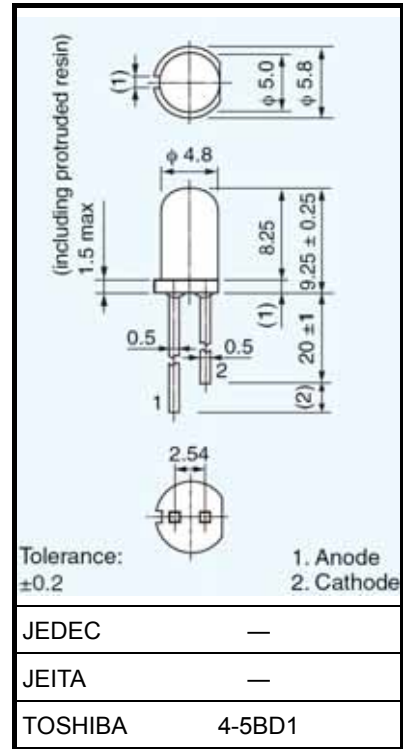


TOSHIBA LED Lamp InGaAlP Yellow Light Emission

TLYK37TP(MT1,F)

Panel Circuit Indicator

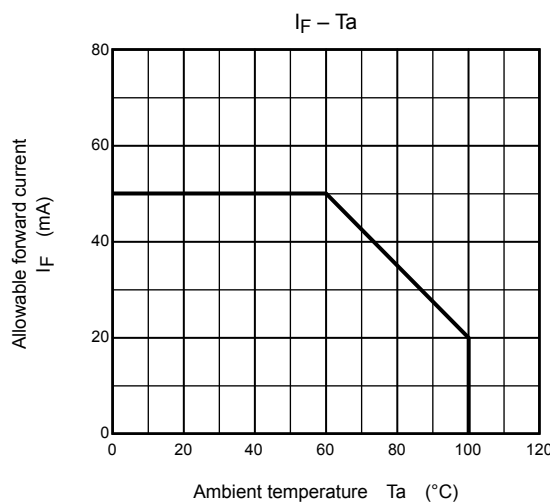
- 5 mm package
- InGaAlP technology
- Transparent lens
- High intensity light emission
- Excellent low current light output
- Applications : Various types of information panels, backlightings, etc.
- Stopper lead type is also available. TLYK37T(F)



Weight: 0.31 g (typ.)

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Forward current	I_F (Note1)	50	mA
Reverse voltage	V_R	4	V
Power dissipation	P_D	125	mW
Operating temperature range	T_{opr}	-40 to 100	°C
Storage temperature range	T_{stg}	-40 to 120	°C



For part availability and ordering information please call Toll Free: 800.984.5337
 Website: www.marktechopto.com | Email: info@marktechopto.com

Electrical and Optical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V_F	$I_F = 20 \text{ mA}$ (Note 2)	1.85	2.25	2.45	V
Reverse current	I_R	$V_R = 4 \text{ V}$	—	—	50	μA
Luminous intensity	I_V	$I_F = 20 \text{ mA}$ (Note 2)	3380	6800	19000	mcd
Peak emission wavelength	λ_P	$I_F = 20 \text{ mA}$	—	594	—	nm
Spectral line half width	$\Delta\lambda$	$I_F = 20 \text{ mA}$	—	13	—	nm
Dominant wavelength	λ_d	$I_F = 20 \text{ mA}$ (Note 2)	587	590	593	nm

Note2: Lamps are classified into the following ranks according to their dominant wavelength and luminous intensity, forward voltage.

Each packing box includes single luminous Intensity class and single dominant wavelength class.

Dominant wavelength rank classification

Rank	Min	Max	Accuracy
2	587	590	± 2nm
3	590	593	
Unit	nm		—

I_V rank classification

Rank	Min	Max	Accuracy
U	3380	6010	± 22.5%
V	6010	10700	
W	10700	19000	
Unit	mcd		—

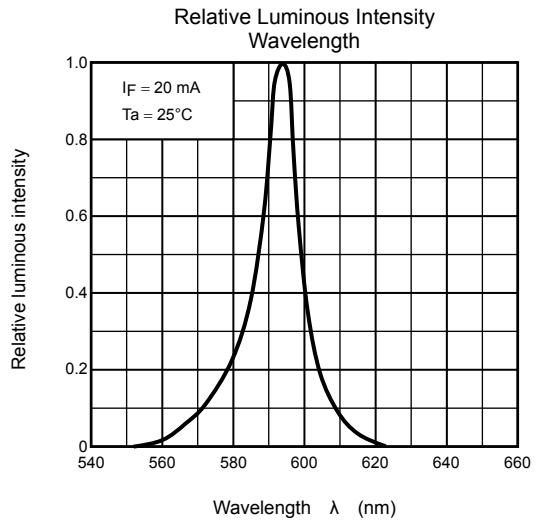
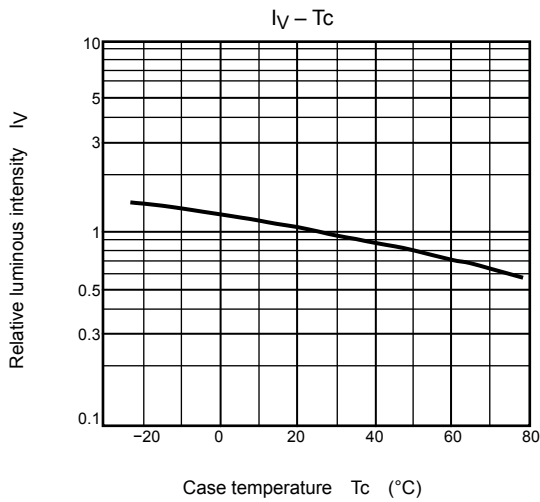
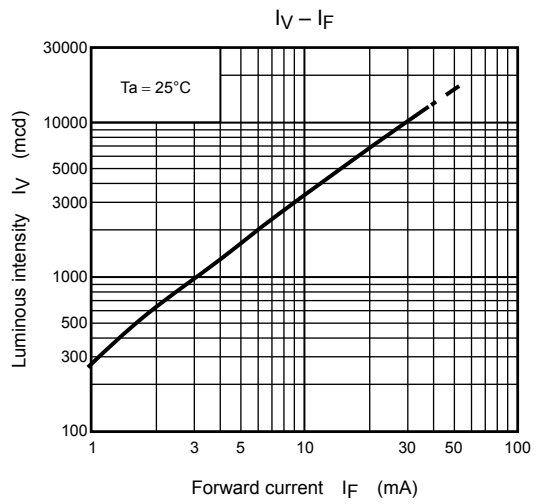
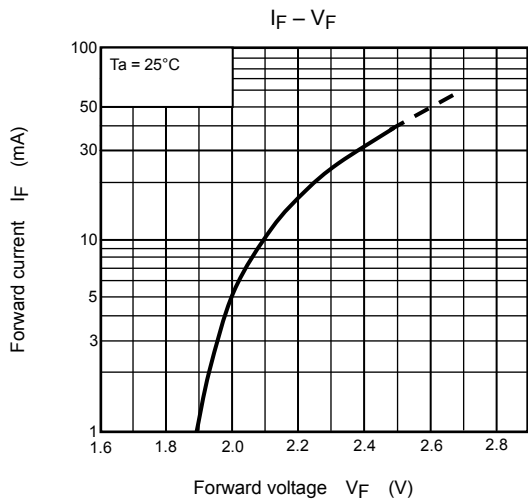
Forward voltage rank classification

Rank	Min	Max	Accuracy
A	1.85	2.05	± 0.05V
B	2.05	2.25	
C	2.25	2.45	
Unit	V		—

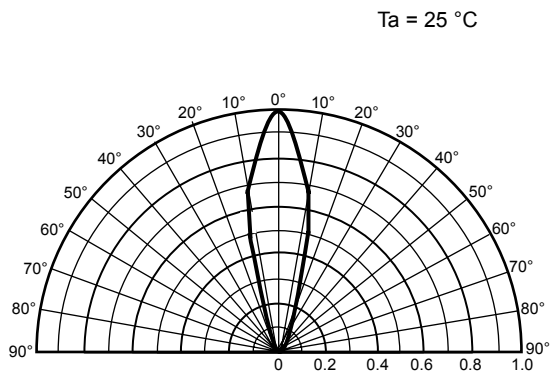
Precaution

Please be careful of the followings

- Soldering temperature: 260°C max Soldering time: 3 s max
(Soldering portion of lead: up to 1.6 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 1.6 mm 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.



Radiation Pattern



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