

TOSHIBA LED Lamp InGaAlP Yellow Light Emission

TLYH180P

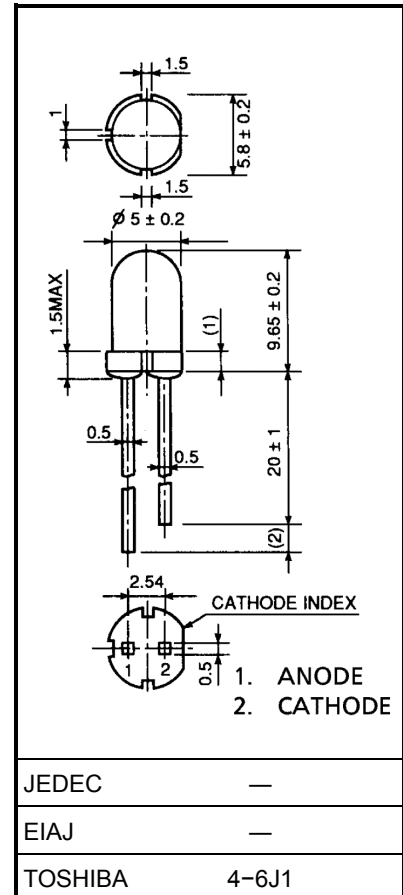
Panel Circuit Indicator

- 5mm diameter (T1-3 / 4)
- InGaAlP yellow LED
- All plastic mold type.
- Colorless clear lens
- Low drive current, high intensity yellow light emission
Recommended forward current: $I_F = 1\sim 20\text{mA (DC)}$
- All plastic molded lens, provides an excellent on-off contrast ratio.
- Fast response time, capable of pulse operation.
- High power luminous intensity
- Without stand-offs
- Applications: Suitable for outdoor message signboard, safety equipment.

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

Characteristic	Symbol	Rating	Unit
Forward current (DC)	I_F	50	mA
Reverse voltage	V_R	4	V
Power dissipation	P_D	125	mW
Operating temperature range	T_{opr}	-30~85	$^\circ\text{C}$
Storage temperature range	T_{stg}	-40~120	$^\circ\text{C}$

Unit in mm



Weight: 0.31 g

Electrical And Optical Characteristics (Ta = 25°C)

Characteristic		Symbol	Test Condition	Min	Typ.	Max	Unit	
Forward voltage		V_F	$I_F = 20\text{mA}$	—	2.1	2.5	V	
Reverse current		I_R	$V_R = 4\text{V}$	—	—	50	μA	
Luminous intensity	TLYH180P	I_V	$I_F = 20\text{mA}$	(Note)	2720	8000	—	mcd
	TLYH180P (VW)				4760	—		
Peak emission wavelength		λ_P	$I_F = 20\text{mA}$	—	590	—	nm	
Spectral line half width		$\Delta\lambda$	$I_F = 20\text{mA}$	—	13	—	nm	
Dominant wavelength		λ_d	$I_F = 20\text{mA}$	—	587	—	nm	

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

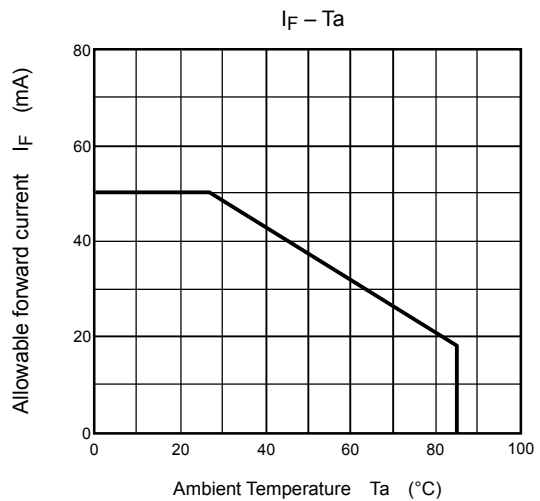
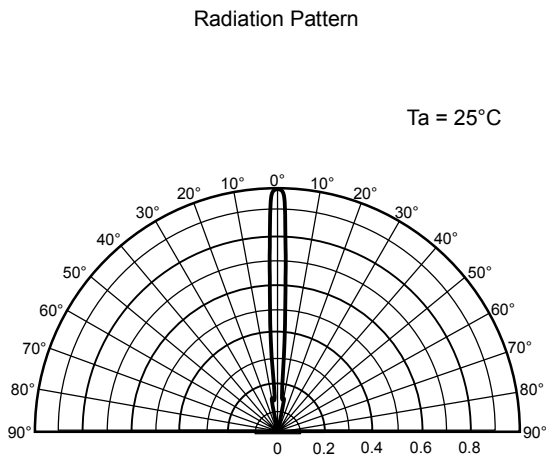
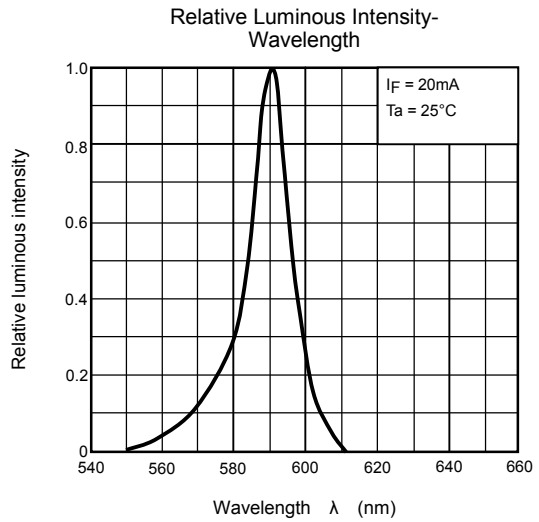
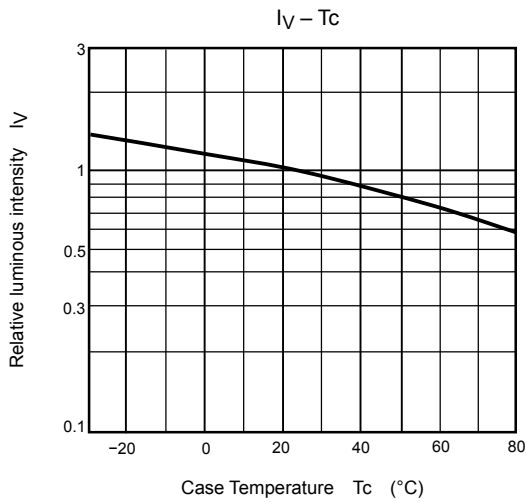
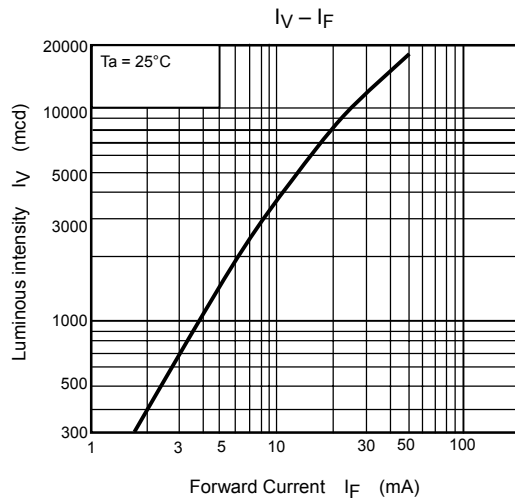
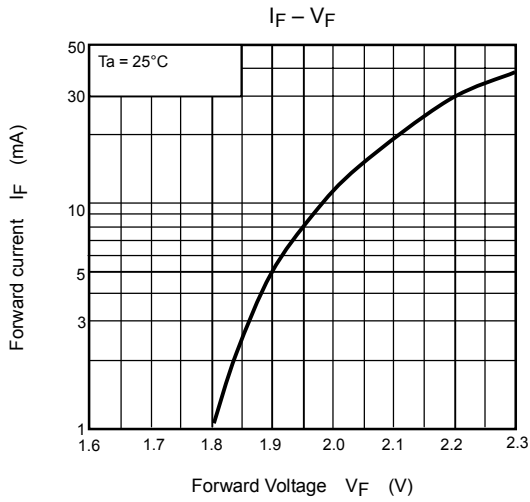
Measurement tolerance for each limit is $\pm 15\%$.

U: 3200–6400mcd, V: 5600–11200mcd, W: 10000–20000mcd.

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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