

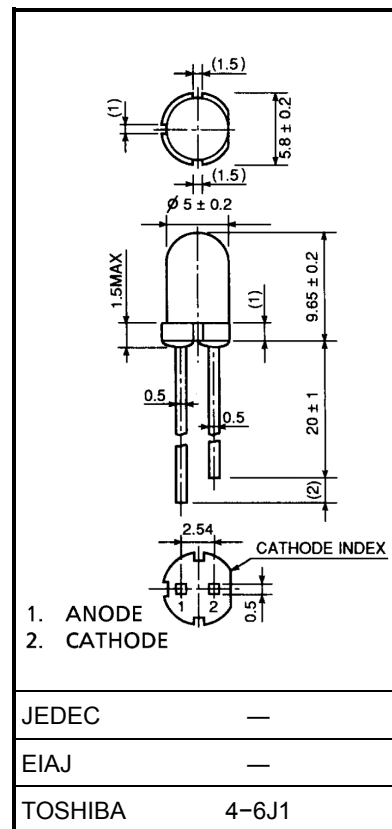
TOSHIBA LED Lamp InGaAlP Yellow Light Emission

TLYE180AP

Panel Circuit Indicator

- 5 mm 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: $I_F = 15\sim 20$ 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.

Unit in mm



Weight: 0.31 g

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}	$-30\sim 85$	$^\circ\text{C}$
Storage temperature range	T_{stg}	$-40\sim 120$	$^\circ\text{C}$

Electrical And Optical Characteristics ($T_a = 25^\circ\text{C}$)

Characteristic		Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage		V_F	$I_F = 20$ mA	—	2.1	2.5	V
Reverse current		I_R	$V_R = 4$ V	—	—	50	μA
Luminous intensity	TLYE180AP	I_V	$I_F = 20$ mA (Note)	1530	4700	—	mcd
	TLYE180AP (UV)			2720	—	12900	
Peak emission wavelength		λ_P	$I_F = 20$ mA	—	590	—	nm
Spectral line half width		$\Delta\lambda$	$I_F = 20$ mA	—	13	—	nm
Dominant wavelength		λ_d	$I_F = 20$ mA	—	587	—	nm

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

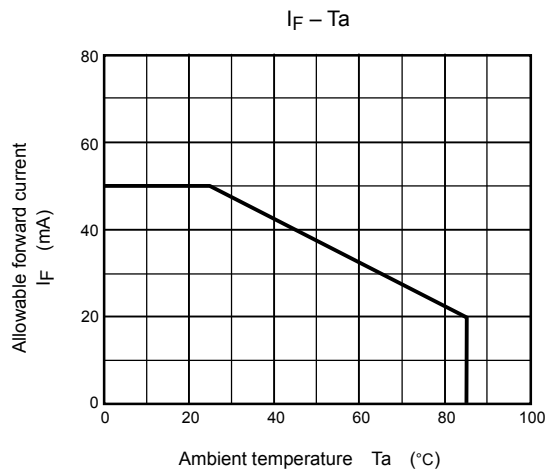
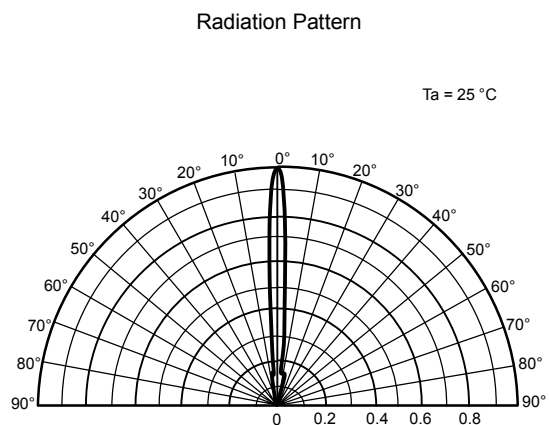
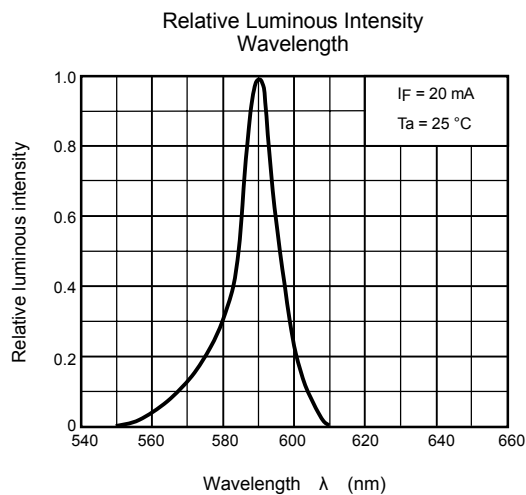
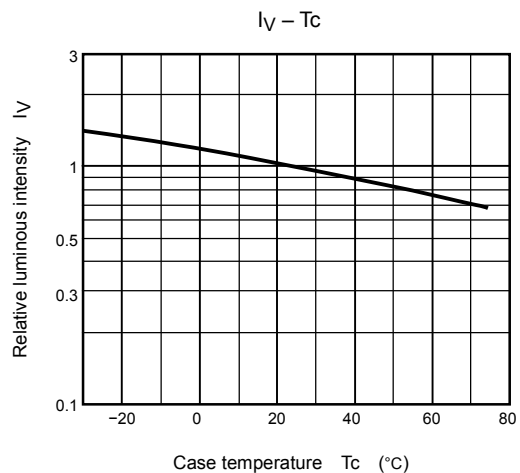
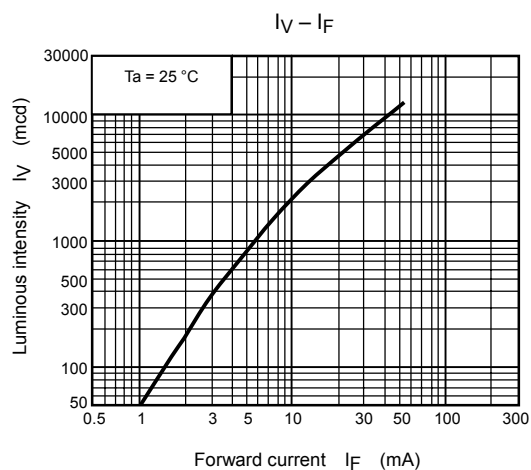
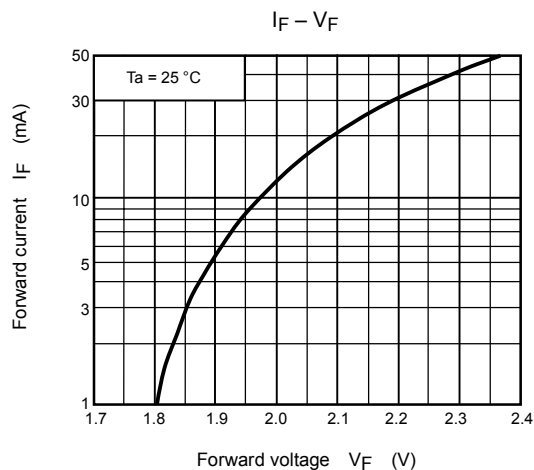
Measurement tolerance for each limit is $\pm 15\%$.

T: 1800–3600 mcd, U: 3200–6400 mcd, V: 5600–11200 mcd.

Precaution

Please be careful of the followings

- Soldering temperature: 260°C max Soldering time: 3 s max
(Soldering portion of lead: Up to 2 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5 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.



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