

TOSHIBA LED Lamp InGaAlP Yellow Light Emission

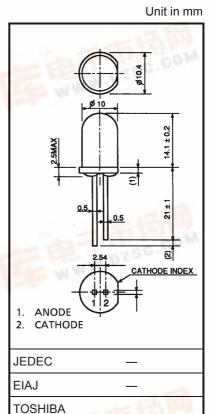
TLYH190P

Panel Circuit Indicator

- 10 mm diameter
- InGaAlP yellow LED
- All plastic mold type.
- Colorless clear lens
- Low drive current, high intensity yellow light emission Recommended forward current : IF = $1\sim20$ 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 (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Forward current (DC)	l _F	50	mA
Reverse voltage	V _R	4	V
Power dissipation	P _D	125	mW
Operating temperature range	T _{opr}	-30~85	°C
Storage temperature range	T _{stg}	-40~120	°C



Weight: 1.0 g



Electrical And Optical Characteristics (Ta = 25°C)

Characteristic		Symbol	Test Condition		Min	Тур.	Max	Unit
Forward voltage V _F		I _F = 20mA		_	2.1	2.5	V	
Reverse current		I _R	V _R = 4V		_	_	50	μΑ
Luminous	TLYH190P	- I _V	I _F = 20mA	(Note)	8500	30000	_	mcd
intensity	TLYH190P (XY)				15300	_	73600	
Peak emission wavelength		λ _P	I _F = 20mA		_	590	_	nm
Spectral line half width $\Delta\lambda$		I _F = 20mA	·	_	13	_	nm	
Dominant wavelength		λ _d	I _F = 20mA	·		587	_	nm

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

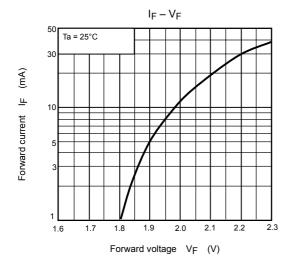
Measurement tolerance for each limit is ±15%.

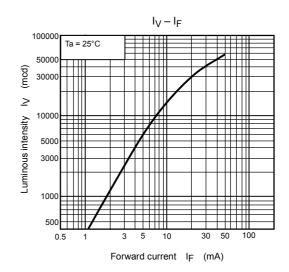
W: 10000-20000 mcd, X: 18000-36000 mcd, Y: 32000-64000 mcd.

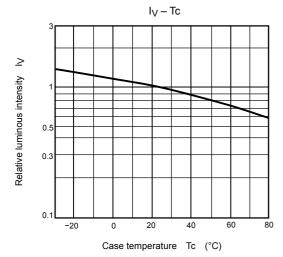
Precaution

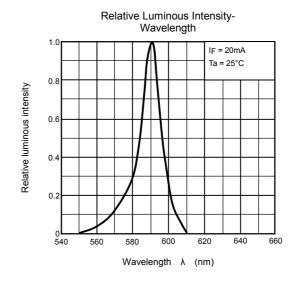
Please be careful of the followings

- 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.

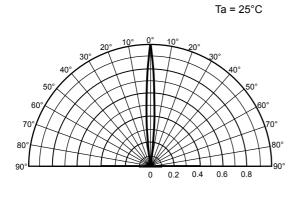


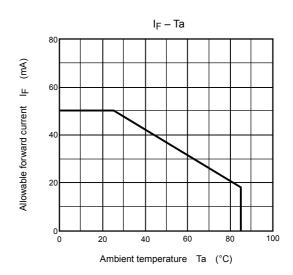






Radiation Pattern





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RESTRICTIONS ON PRODUCT USE

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