Unit in mm

TOSHIBA LED Lamp InGaAlP Yellow Light Emission

TLYE160A

Panel Circuit Indicator

- 3.1mm diameter (T1)
- InGaAlP yellow LED
- All plastic mold type.
- Colorless clear lens
- Low drive current, high intensity yellow light emission Recommended forward current: IF = 15~20mA (DC)
- All plastic molded lens, provides an excellent on-off contrast ratio.
- Fast response time, capable of pulse operation.
- High power luminous intensity
- Applications: Suitable for safety equipment.

Outdoor displays.

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Forward current (DC)	l _F	50	mA	
Reverse voltage	V_{R}	4	٧	
Power dissipation	P _D	125	mW	
Operating temperature range	T _{opr}	-30~85	°C	
Storage temperature range	T _{stg}	-40~120	°C	

0.7MAX 0.45 0.7MAX 0.45 0.7MAX 0.45 0.45 0.45 0.45 0.45 0.45

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Weight: 0.14 g

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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	μA
Luminous intensity	TLYE160A	- I _V	I _F = 20mA	(Note)	476	2300	_	mcd
	TLYE160A (ST)				850	_	4140	
Peak emission wavelength		λ _P	I _F = 20mA		_	590	_	nm
Spectral line half width		Δλ	I _F = 20mA			13	_	nm
Dominant wavelength		λd	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%.

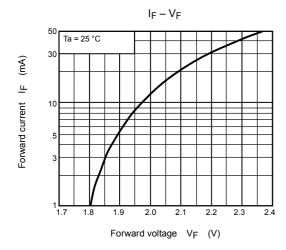
R: 560-1120mcd, S: 1000-2000mcd, T: 1800-3600mcd.

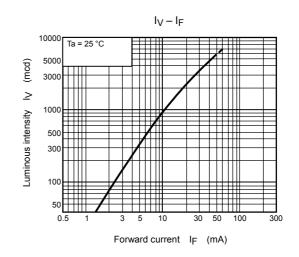
Precaution

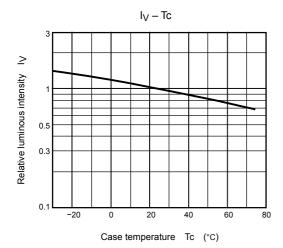
Please be careful of the followings

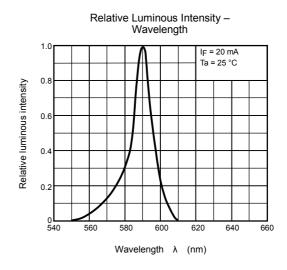
- \bullet Soldering temperature: 260°C max Soldering time: 3 s max (Soldering portion of lead: Up to 2mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5mm from the body of the device without forming stress to the resin. Soldering should be performed after lead 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.

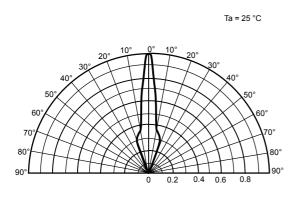
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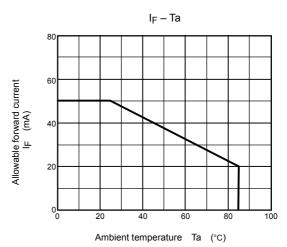








Radiation Pattern



RESTRICTIONS ON PRODUCT USE

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