TOSHIBA LED Lamp InGaAlP Orange Light Emission

TLOH160

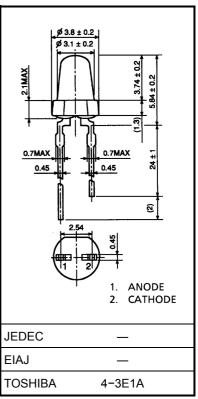
Panel Circuit Indicator

• 3.1 mm diameter (T1)

- InGaAlP orange LED
- All plastic mold type.
- Colorless clear lens
- Low drive current, high intensity orange light emission Recommended forward current: IF = 1~20mA (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 outdoor message signboard, safety equipment, etc..

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Forward current (DC)	١ _F	50	mA
Reverse voltage	V _R	4	V
Power dissipation	PD	125	mW
Operating temperature range	T _{opr}	-30~85	°C
Storage temperature range	T _{stg}	-40~120	°C



Weight: 0.14 g

Unit in mm

Electrical And Optical Characteristics (Ta = 25°C)

Charao	cteristic	Symbol	Test Condition	Min	Тур.	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	TLOH160	- I _V	I _F = 20 mA (Not	850	2300	-	mcd
	TLOH160(TU)			1530	—	7360	
Peak emission wavelength		λ _p	I _F = 20 mA	_	612	_	nm
Spectral line half width		Δλ	I _F = 20 mA	_	15	_	nm
Dominant wavelength		λ _d	I _F = 20 mA	—	605	—	nm

(Note): Lamps are classified into the following ranks according to their luminous intensity. Measurement tolerance for each limit is ±15%.

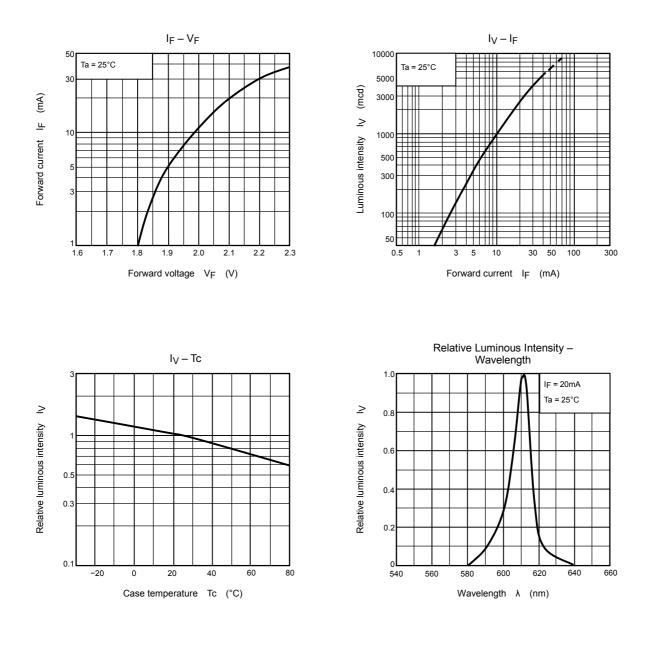
S: 1000–2000mcd, T: 1800–3600mcd, U: 3200–6400mcd.

Precaution

Please be careful of the followings

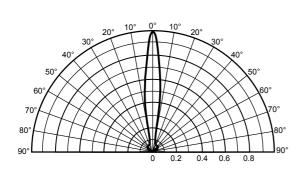
- Soldering temperature: 260°C max Soldering time: 3 s max (Soldering portion of lead: Up to 2 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.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

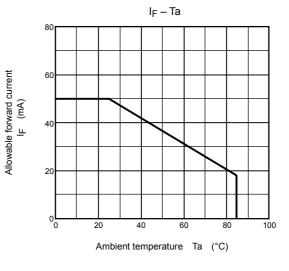
TOSHIBA



Radiation Pattern

Ta = 25°C





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