TOSHIBA

TOSHIBA LED Lamp InGaAlP Orange Light Emission

TLOH160

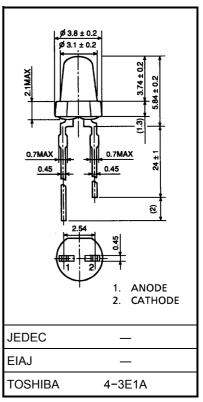
Panel Circuit Indicator

- 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 = $1\sim20$ mA (DC)
- All plastic molded lens, provides an excellent on-off contrast ratio.
- Fast response time, capable of pulse operation.
- · High power luminous intensity
- Applications: Suitable for outdoor message signboard, safety equipment, etc..

Maximum Ratings (Ta = 25°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	°C
Storage temperature range	T _{stg}	-40~120	°C

Unit in mm



Weight: 0.14 g

Electrical And Optical Characteristics (Ta = 25°C)

Cha	aracteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	е	V _F	I _F = 20 mA	_	2.1	2.5	V
Reverse curren	t	I _R	V _R = 4 V	_	_	50	μΑ
Luminous intensity	TLOH160	- I _V	I _F = 20 mA (Note	850	2300	_	mcd
	TLOH160(TU)			1530	_	7360	
Peak emission wavelength		λρ	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%.

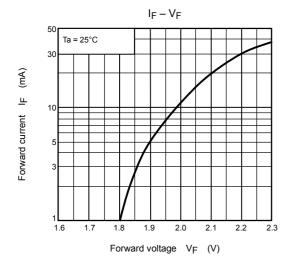
S: 1000-2000mcd, T: 1800-3600mcd, U: 3200-6400mcd.

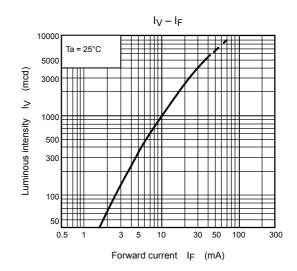
Precaution

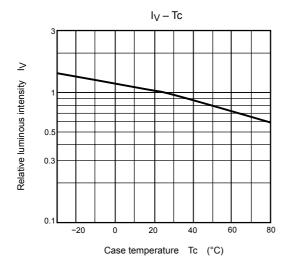
Please be careful of the followings

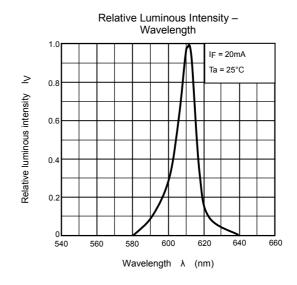
- Soldering temperature: 260°C max Soldering time: 3 s max (Soldering portion of lead: Up to 2 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.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

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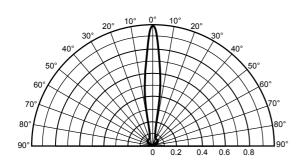


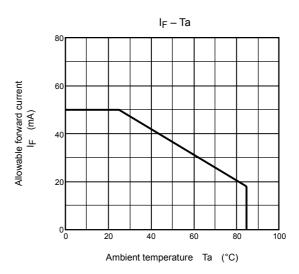




Radiation Pattern

Ta = 25°C





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RESTRICTIONS ON PRODUCT USE

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