TLOH180P

TOSHIBA LED Lamp InGaA&P Orange Light Emission

TLOH180P

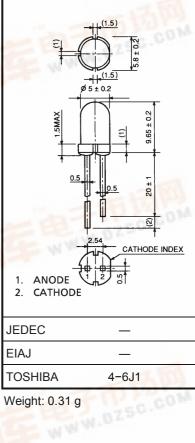
Panel Circuit Indicator

- 5mm diameter (T1-3/4)
- 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
- Without stand-offs
- Applications: Suitable for outdoor message signboard, safety equipment.

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Forward current (DC)	lF	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: 0.31 g



Electrical And Optical Characteristics (Ta = 25°C)

Characteristic		Symbol	Test Condition		Min	Тур.	Max	Unit
Forward voltage	e	V _F	I _F = 20 mA		_	2.1	2.5	V
Reverse curren	ıt	I _R	V _R = 4 V		_	_	50	μA
Luminous intensity	TLOH180P	ly	I _F = 20 mA (N	(Note)	2720	10000	_	mcd
	TLOH180P(VW)		IF - 20 IIIA (IV		4760	_	23000	
Peak emission wavelength		λp	I _F = 20 mA		_	612	_	nm
Spectral line half width		Δλ	I _F = 20 mA		_	15	_	nm
Dominant wavelength		λd	I _F = 20 mA		_	605	_	nm

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

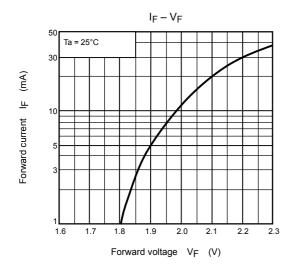
Measurement tolerance for each limit is ±15%.

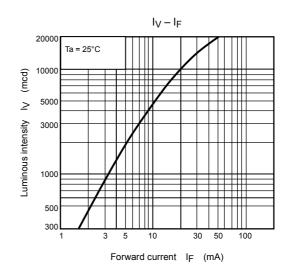
U: 3200-6400mcd, V: 5600-11200mcd, W: 10000-20000mcd.

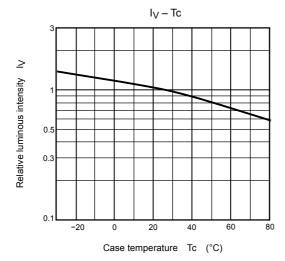
Precaution

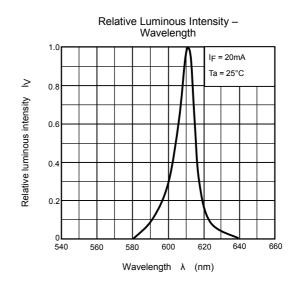
Please be careful of the followings

- 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.





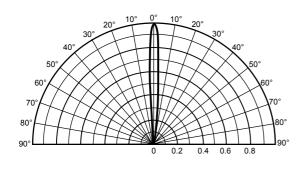


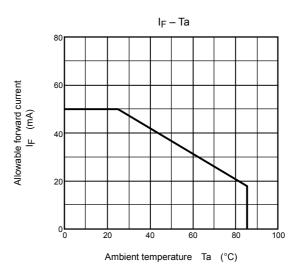




Ta = 25°C

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2002-09-25

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