TOSHIBA LED Lamp InGaAlP Orange Light Emission

## **TLOH160**

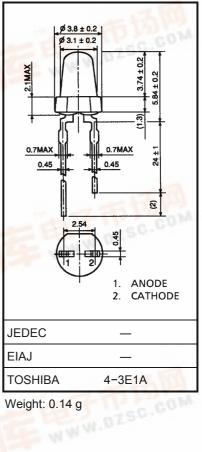
# Panel Circuit Indicator

- 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)

Symbol	Rating	Unit						
I <sub>F</sub>	50	mA						
V <sub>R</sub>	4	V						
P <sub>D</sub>	125	mW						
Topr	-30~85	°C						
T <sub>stg</sub>	-40~120	°C						
ACT WWW.DZSO.								
	I <sub>F</sub> V <sub>R</sub> P <sub>D</sub> T <sub>opr</sub>	I <sub>F</sub> 50 V <sub>R</sub> 4 P <sub>D</sub> 125 T <sub>opr</sub> -30~85						

Unit in mm



Weight: 0.14 g



## **Electrical And Optical Characteristics (Ta = 25°C)**

Characteristic		Symbol	Test Condition		Min	Тур.	Max	Unit
Forward voltage		V <sub>F</sub>	I <sub>F</sub> = 20 mA		_	2.1	2.5	V
Reverse current		I <sub>R</sub>	V <sub>R</sub> = 4 V		_	_	50	μA
Luminous intensity	TLOH160	- I <sub>V</sub>	I <sub>F</sub> = 20 mA	(Note)	850	2300	_	mcd
	TLOH160(TU)				1530	1	7360	
Peak emission wavelength		λρ	I <sub>F</sub> = 20 mA		-	612	-	nm
Spectral line half width		Δλ	I <sub>F</sub> = 20 mA		_	15	_	nm
Dominant wavelength		$\lambda_{d}$	I <sub>F</sub> = 20 mA			605	_	nm

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

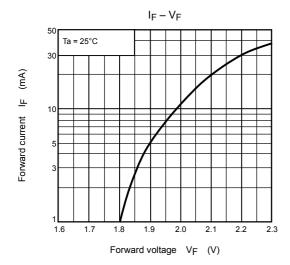
Measurement tolerance for each limit is ±15%.

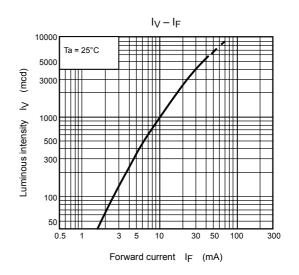
S: 1000-2000mcd, T: 1800-3600mcd, U: 3200-6400mcd.

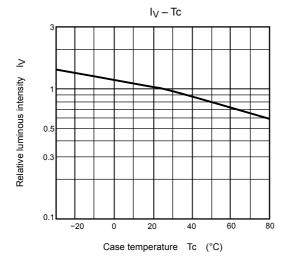
### **Precaution**

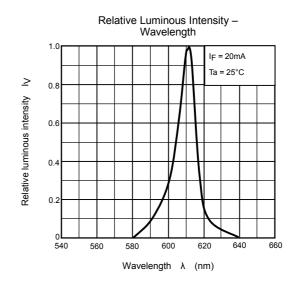
Please be careful of the followings

- 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.



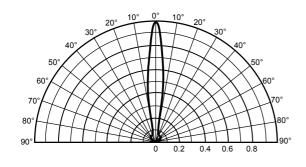


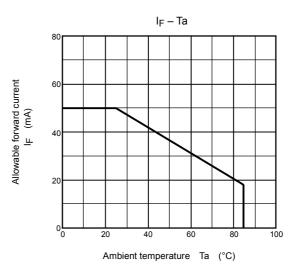






Ta = 25°C





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