TOSHIBA LED Lamp InGaAlP Orange Light Emission

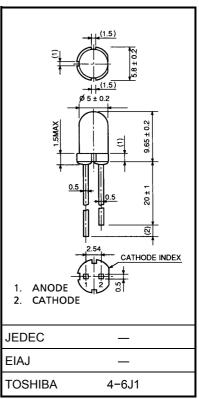
TLOE180AP

Panel Circuit Indicator

- 5 mm 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: $IF = 15 \sim 20 \text{mA} (DC)$
- 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)	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: 0.31g

Electrical Characteristics (Ta = 25°C)

Chara	cteristic	Symbol	Test Condition		Min	Тур.	Max	Unit
Forward voltage		V _F	I _F = 20 mA		_	1.95	2.4	V
Reverse current		I _R	V _R = 4 V		_	_	50	μA
Luminous intensity	TLOE180AP	- I _V	I _F = 20 mA	(Note)	1530	7000	_	mcd
	TLOE180AP(UV)				2720	_	12900	
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%.

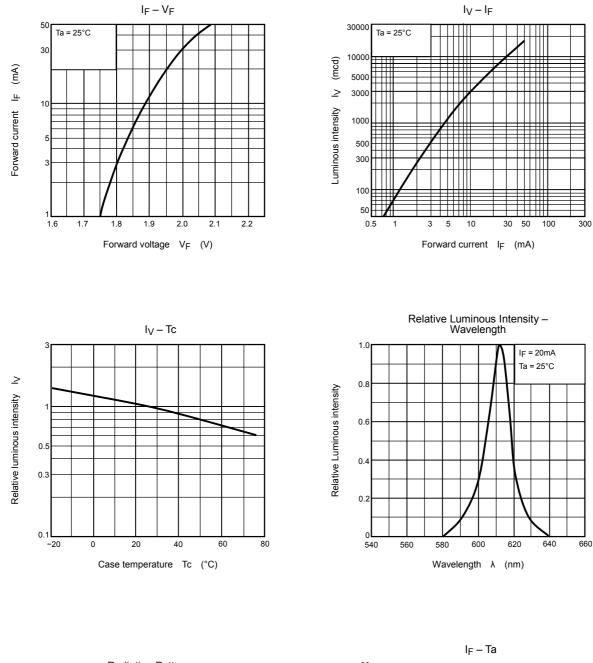
T: 1800–3600mcd, U: 3200–6400mcd, V: 5600–11200mcd, W: 8500–23000mcd.

Precaution

Please be careful of the followings

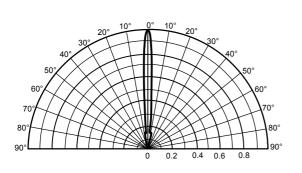
- Soldering temperature: 260°C max Soldering time: 3 s max (Soldering portion of lead: Up to 2 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.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

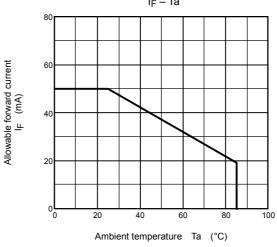
TOSHIBA



Radiation Pattern







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