LED Lamp TLOE180P

InGaAIP Orange Light Emission

Unit in mm

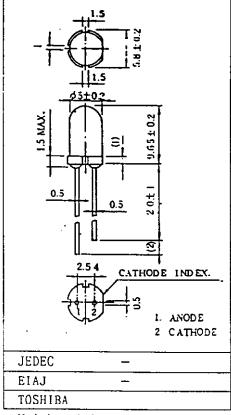
Panel Circuit Indicator

5 mm Diameter (T1-3/4)

- New Emission Material (InGaAIP) Orange LED
- Peak Wavelength: λ p = 612 nm
- · All Plastic Mold Type
- · Colorless Clear Lens
- Low Drive Current, High Intensity Orange Light Emission
- Recommended Forward Current: I_F = 15 ~ 20 mA (DC)
- · All Plastic Molded Lens
 - Provides an Excellent ON-OFF Contrast Ratio
- · Fast Response Time
 - Capable of Pulse Operation
- High Power Luminous Intensity
 - Suitable for Outdoor Message Signboard
 - Automotive use
- Straight Lead (no stand-off)
- · High Reliability
 - T_{sta} : -40 ~ 120°C

Maximum Ratings ($T_a = 25^{\circ}C$)

Characteristic	Symbol	Rating	Unit
Forward Current (DC)	I _F	30	mA
Reverse Voltage	V _R	4	V
Power Dissipation	P _D	75	mA
Operating Temperature Range	T _{opr}	-30 ~ 85	°C
Storage Temperature Range	T _{stg}	−40 ~ 120	°C



Weight: 0.31g

The information contained here is subject to change without notice.

The information contained herein is presented only as guide for the applications of our products. No responsibility is assumed by TOSHIBA for any infringements of patents or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of TOSHIBA or others. These TOSHIBA products are intended for usage in general electronic equipments (office equipment, communication equipment, measuring equipment, domestic electrification, etc.) Please make sure that you consult with us before you use these TOSHIBA products in equipments which require high quality and/or reliability, and in equipments which could have major impact to the welfare of human life (atomic energy control, spaceship, traffic signal, combustion control, all types of safety devices, etc.). TOSHIBA cannot accept liability to any damage which may occur in case these TOSHIBA products were used in the mentioned equipments without prior consultation with TOSHIBA.

TOSHIBA CORPORATION 1/3

Electro-Optical Characteristics ($T_a = 25$ °C)

Characteristic	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	μА
Luminous Intensity (1	I _V	I _F = 20 mA (TU)	1530	3500	_	mcd
	(NOTE)		1900	_	6400	
Peak Emission Wavelength	λ_{p}	I _F = 20 mA	_	612	_	nm
Spectral Line Half Width	Δλ	I _F = 20 mA	_	15	_	nm

(NOTE) Rank classified products are available in a minimum two-rank selection. Please not that the upper and lower values of the luminous intenisty classification criteria include +/-15% tolerances.

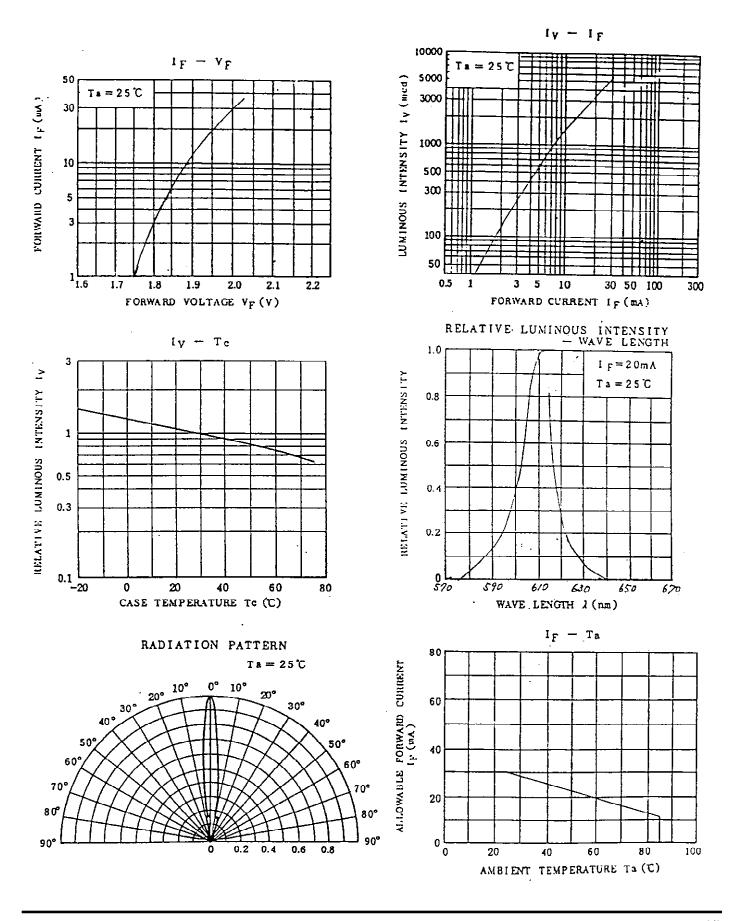
Precaution

Please be careful of the following:

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

2/3

T:1800-3600mcd, U:3200-6400mcd.



TOSHIBA CORPORATION 3/3