

**TENTATIVE**

TOSHIBA InGaAlP LED

# TLOU180P, TLSU180P, TLYU180P

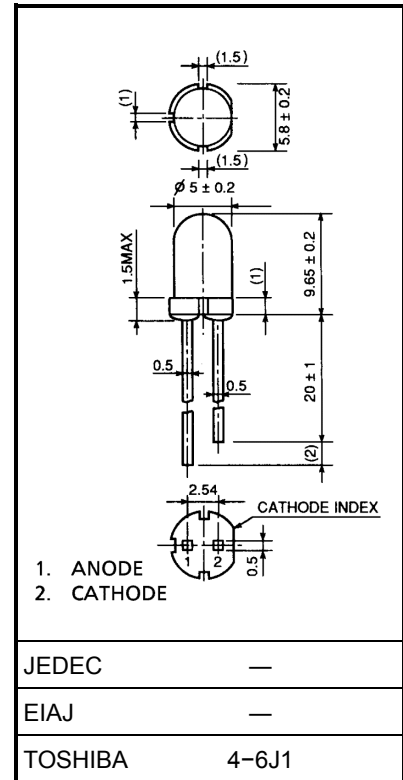
## Panel Circuit Indicator

- InGaAlP LED
- Without stand-offs
- All plastic mold type
- Colorless clear lens
- Lineup: 3 colors (red, orange, yellow)
- Suitable for high-brightness and less electricity consumption.
- All plastic molded lens, provides an excellent on-off contrast ratio.
- Applications: Backlight, light for decoration, switches, various indicator, personal equipment

## Lineup

Product	Color	Material
TLOU180P	Orange	InGaAlP
TLSU180P	Red	InGaAlP
TLYU180P	Yellow	InGaAlP

Unit in mm



Weight: 0.31 g

## Maximum Ratings (Ta = 25°C)

Product	Forward Current I <sub>F</sub> (mA)	Reverse Voltage V <sub>R</sub> (V)	Power Dissipation P <sub>D</sub> (mW)	Operating Temperature T <sub>opr</sub> (°C)	storage temperature T <sub>stg</sub> (°C)
TLOU180P	30	4	72	-30~85	-40~120
TLSU180P	30	4	72	-30~85	-40~120
TLYU180P	30	4	75	-30~85	-40~120

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

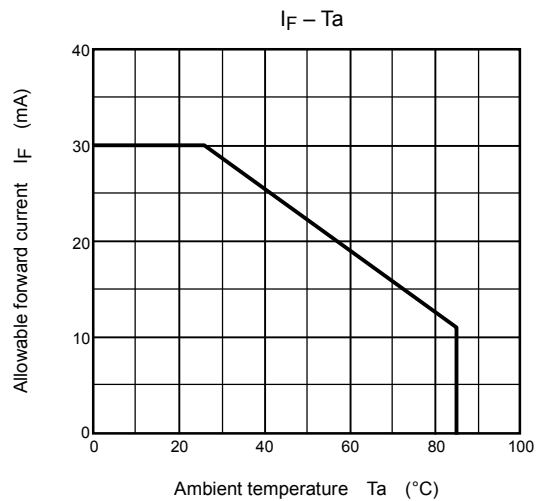
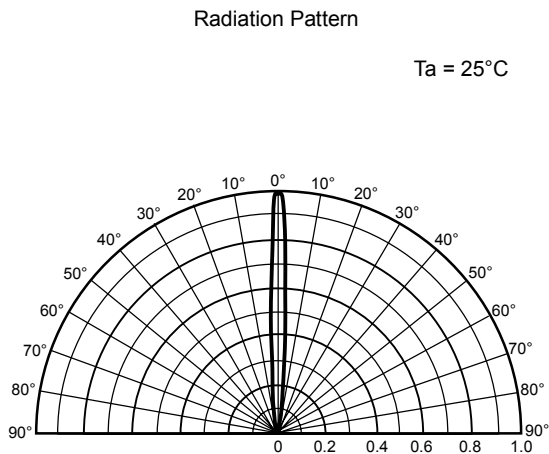
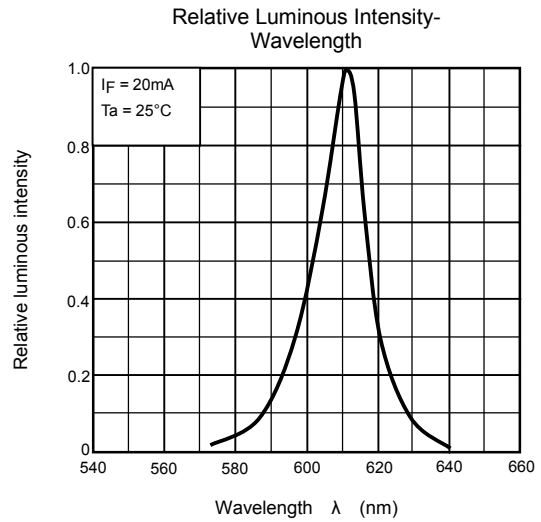
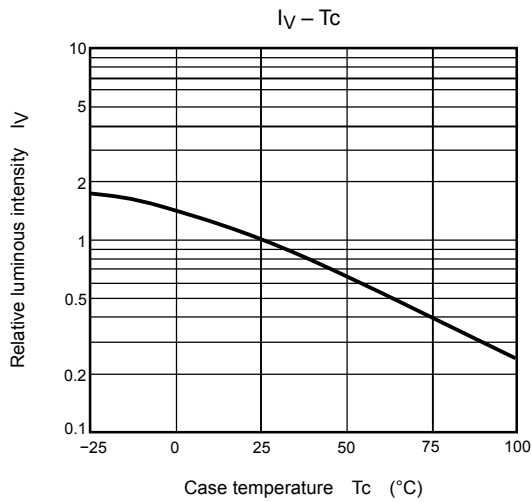
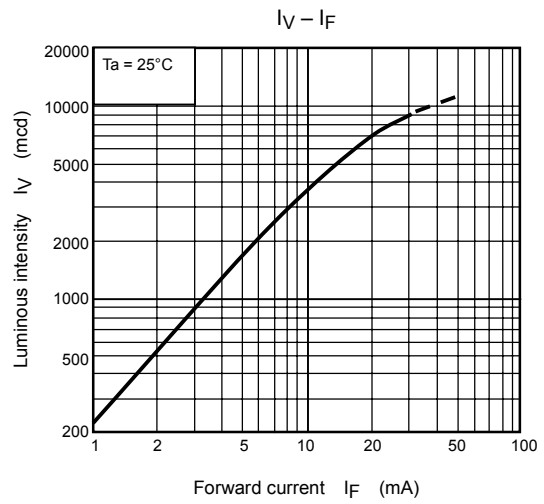
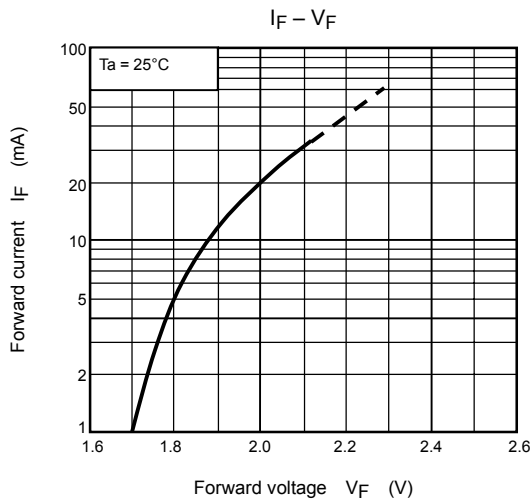
Product	Typ. Emission Wavelength			Luminous Intensity I <sub>V</sub>			Forward Voltage V <sub>F</sub>			Reverse Current I <sub>R</sub>	
	λ <sub>P</sub>	Δλ	I <sub>F</sub>	Min	Typ.	I <sub>F</sub>	Typ.	Max	I <sub>F</sub>	Max	V <sub>R</sub>
TLOU180P	612	15	20	850	7000	20	2.0	2.4	20	50	4
TLSU180P	636	17	20	850	4500	20	2.0	2.4	20	50	4
TLYU180P	590	13	20	850	4300	20	2.1	2.5	20	50	4
Unit	nm		mA	mcd		mA	V		mA	μA	V

## Precaution

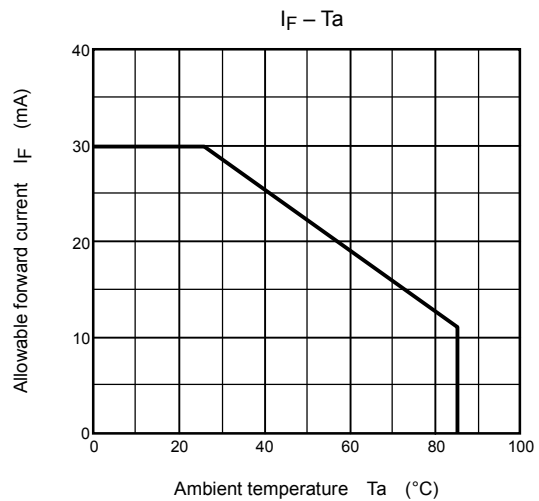
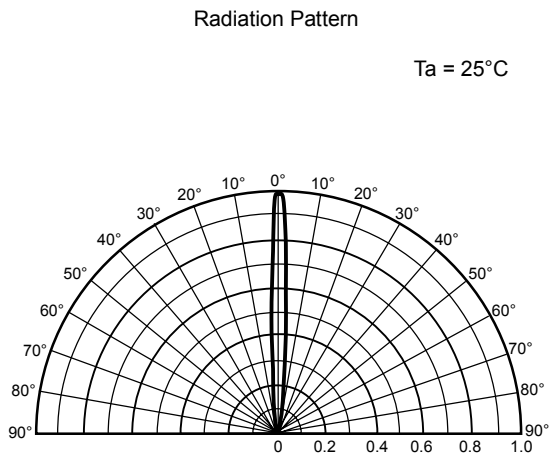
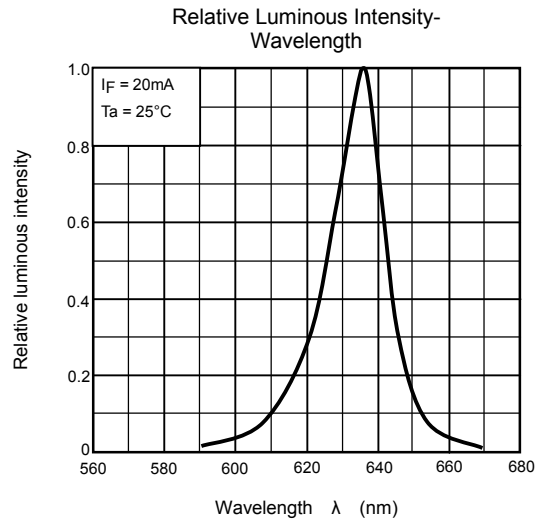
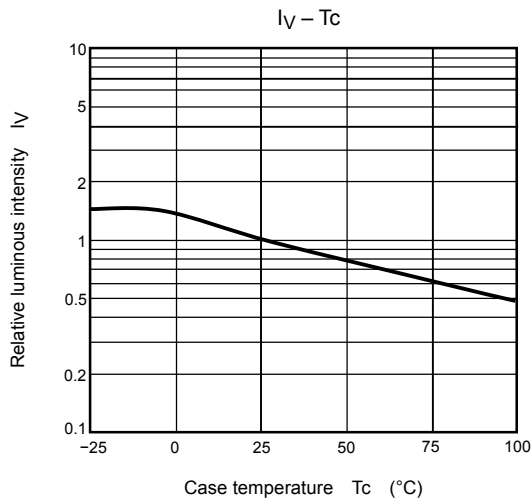
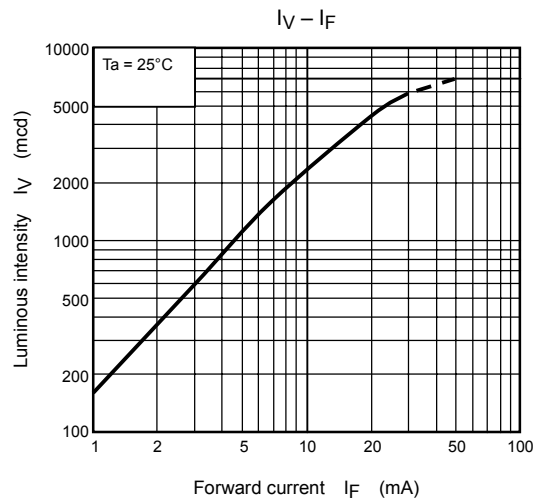
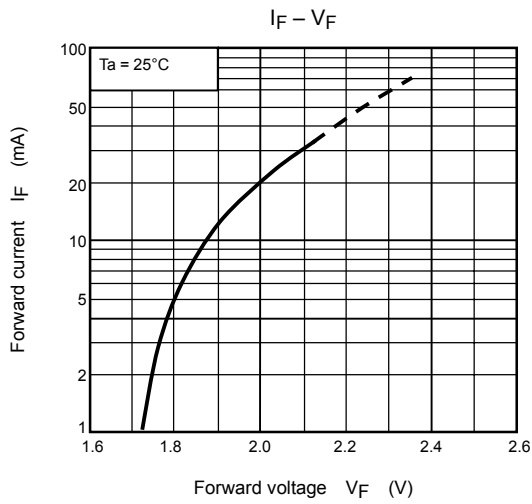
Please be careful of the followings

- 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.

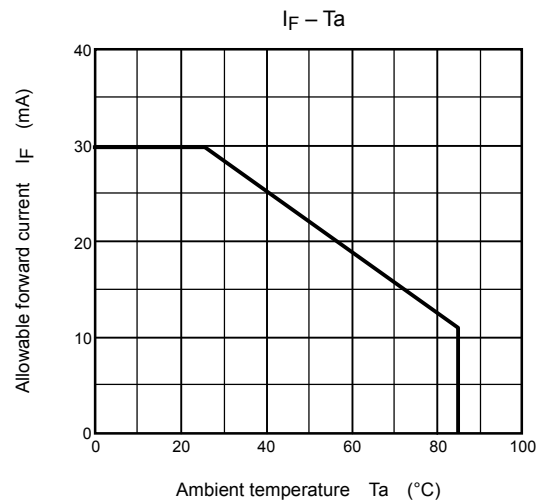
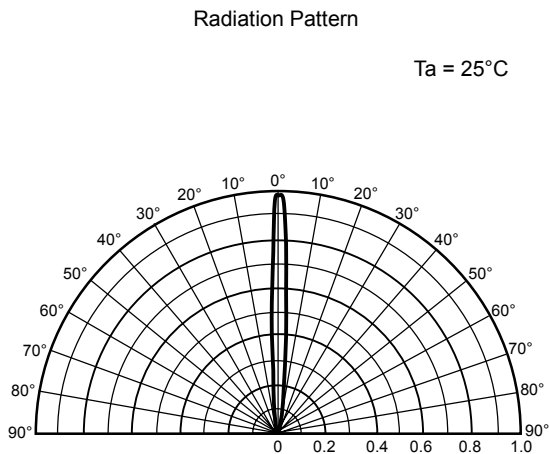
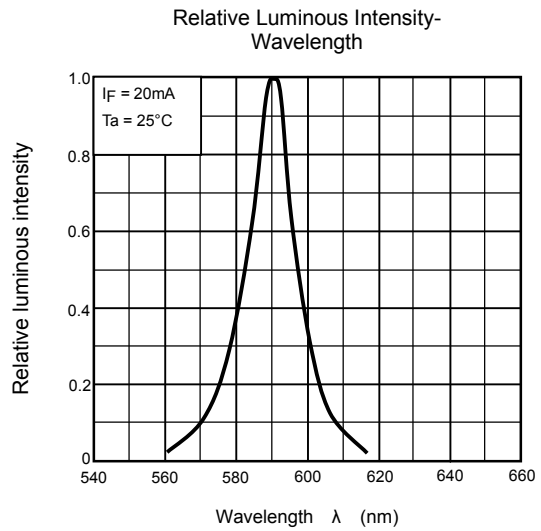
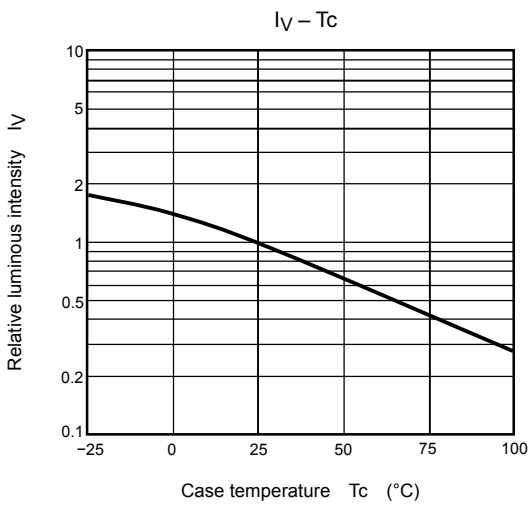
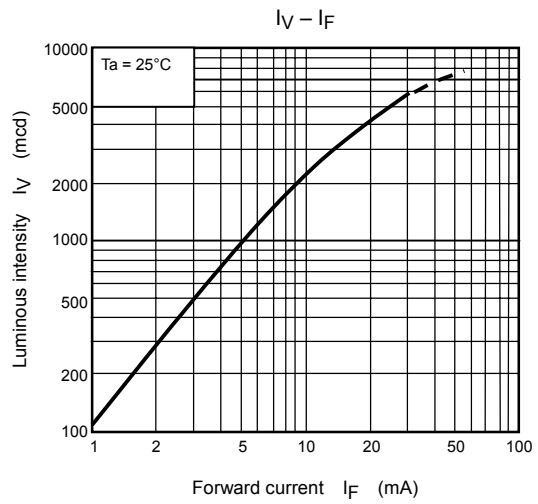
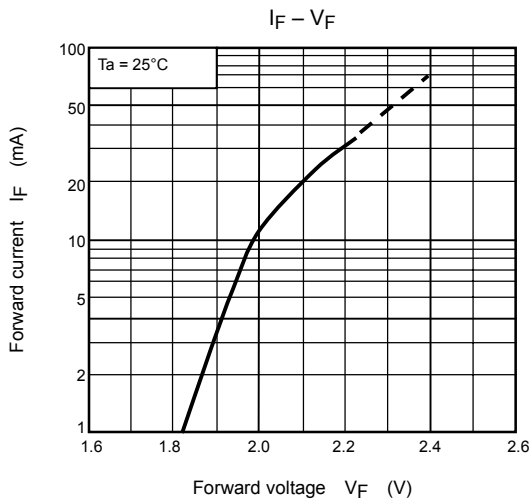
TLOU180P



TLSU180P



TLYU180P



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