

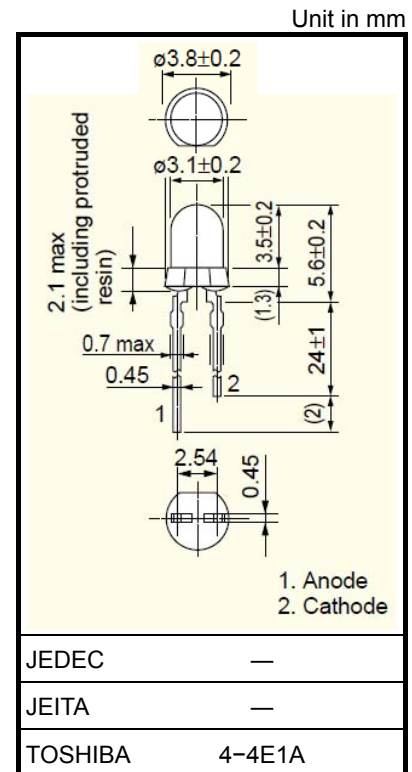
**TLOU124(F), TLSU124(F), TLYU124(F)**

## Panel Circuit Indicator

- 3mm package
- InGaAlP LED
- All plastic mold type
- Colored lusterless 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
TLOU124(F)	Orange	InGaAsP
TLSU124(F)	Red	InGaAsP
TLYU124(F)	Yellow	InGaAsP



Weight: 0.14 g(Typ.)

### Absolute 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>sto</sub> (°C)
TLOU124(F)	30	4	72	-20~75	-30~100
TLSU124(F)	30	4	72	-20~75	-30~100
TLYU124(F)	30	4	75	-20~75	-30~100

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

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

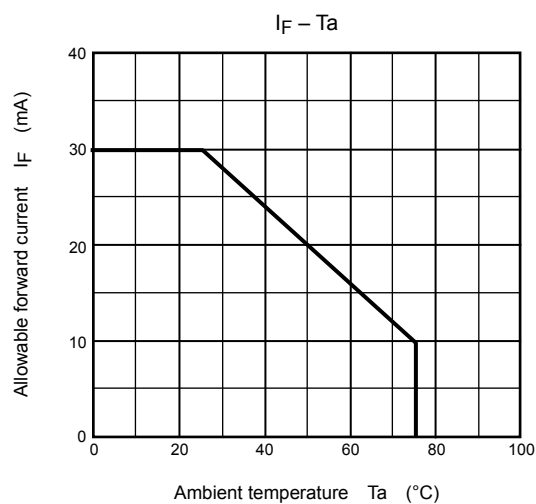
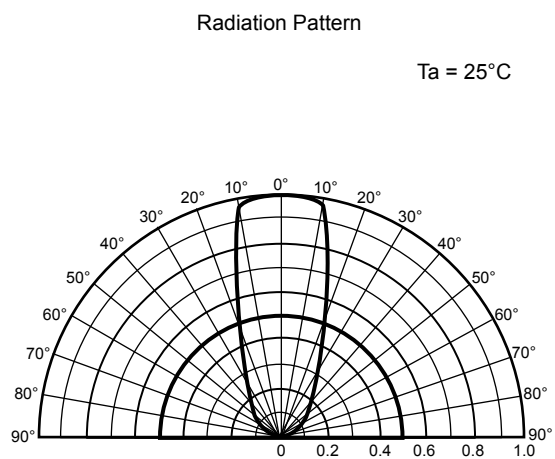
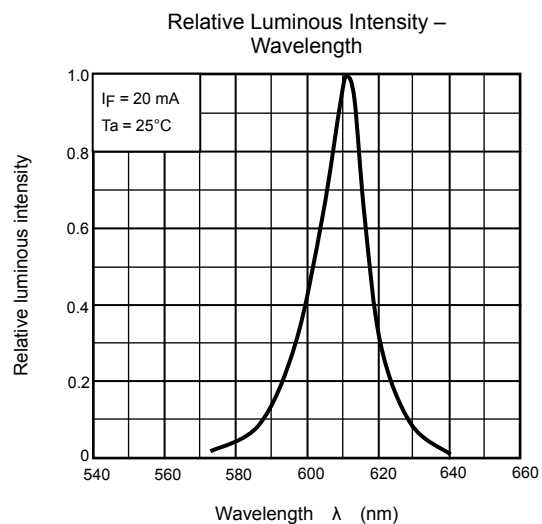
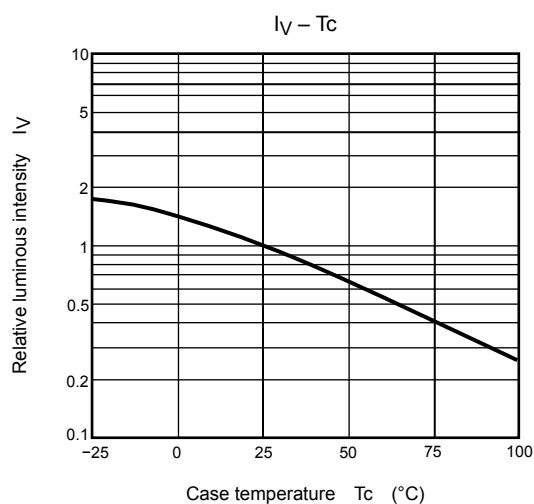
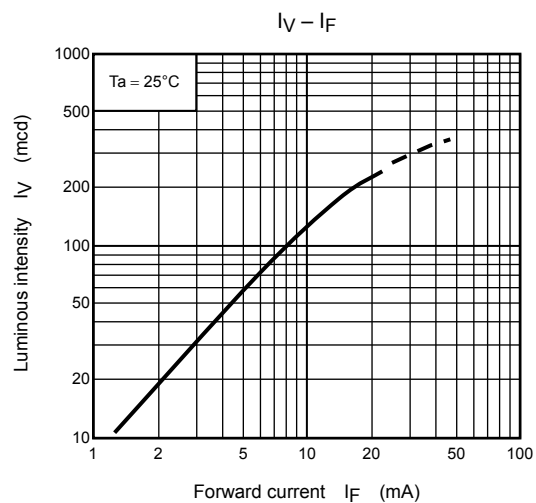
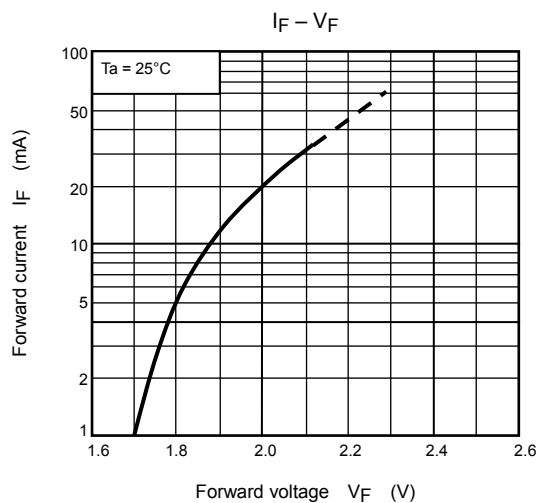
Product	Typ. Emission Wavelength			Luminous Intensity I <sub>V</sub>			Forward Voltage V <sub>F</sub>			Reverse Current I <sub>R</sub>	
	λ <sub>P</sub>	Δλ	I <sub>F</sub>	Min	Typ.	I <sub>F</sub>	Typ.	Max	I <sub>F</sub>	Max	V <sub>R</sub>
TLOU124(F)	(612)	15	20	85	230	20	2.0	2.4	20	50	4
TLSU124(F)	(636)	17	20	47.6	160	20	2.0	2.4	20	50	4
TLYU124(F)	(590)	13	20	85	200	20	2.1	2.5	20	50	4
Unit	nm		mA	mcd		mA	V		mA	μA	V

## Precaution

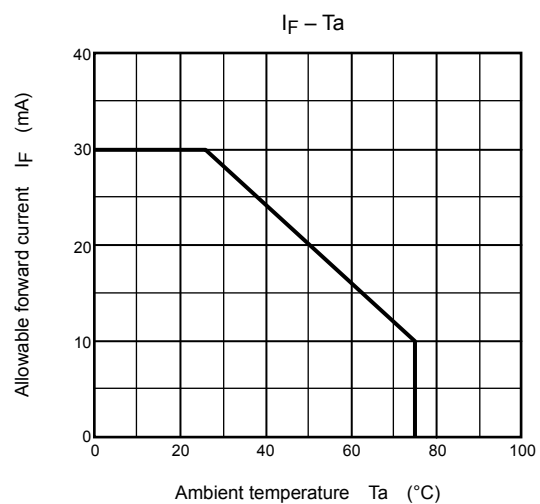
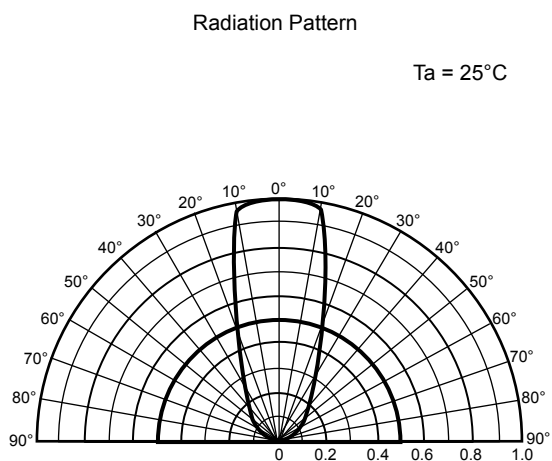
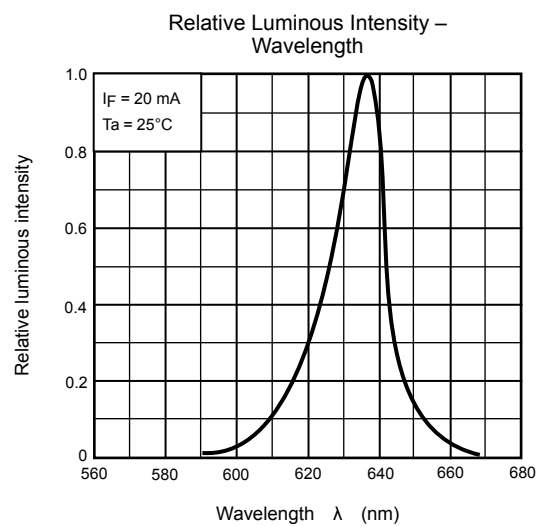
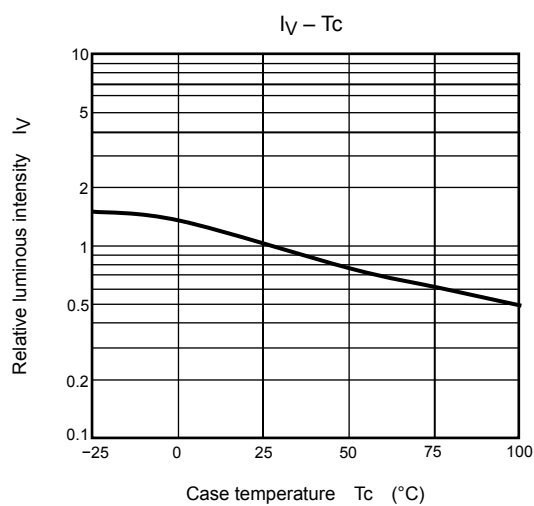
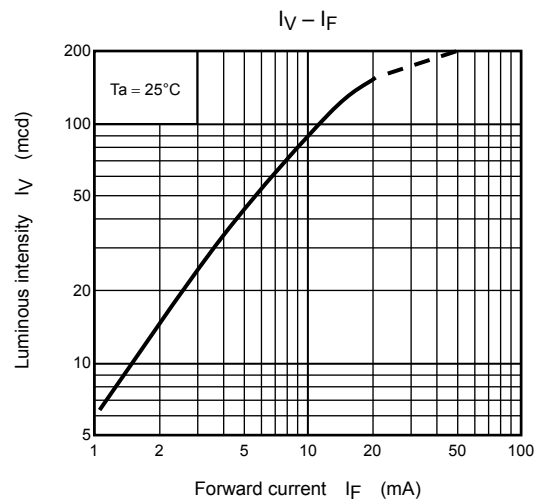
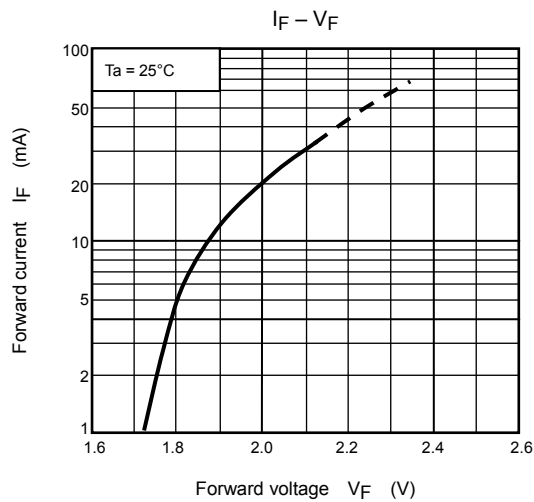
Please be careful of the followings

- Soldering temperature: 260°C max    Soldering time: 3 s max  
(soldering portion of lead: Up to 1.6 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 1.6 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.

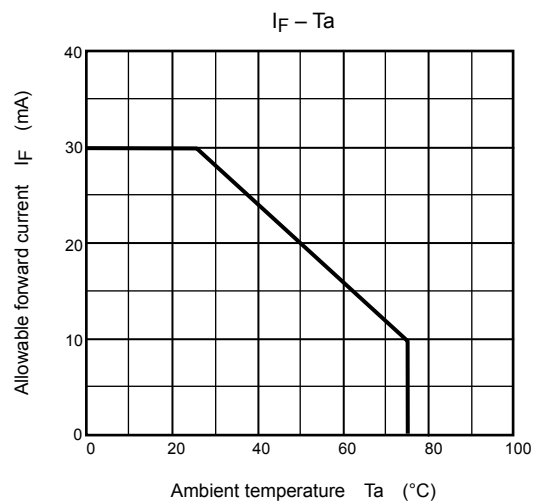
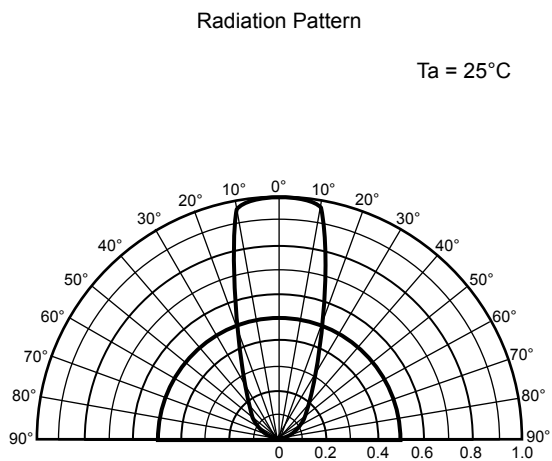
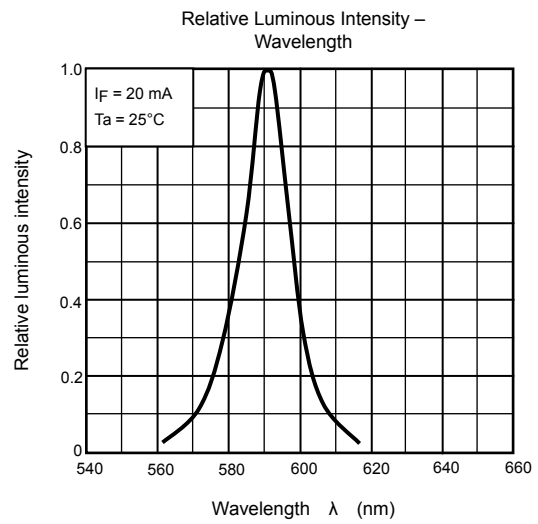
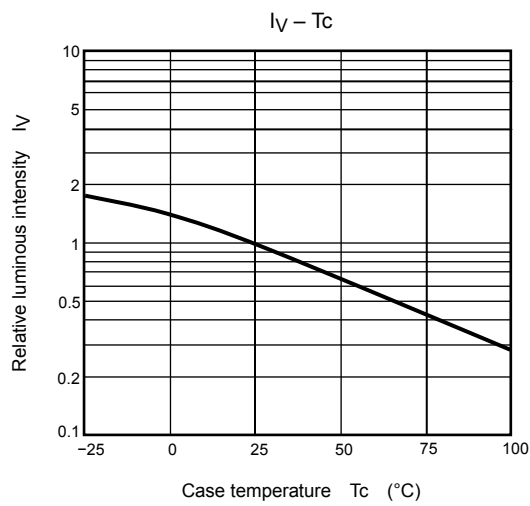
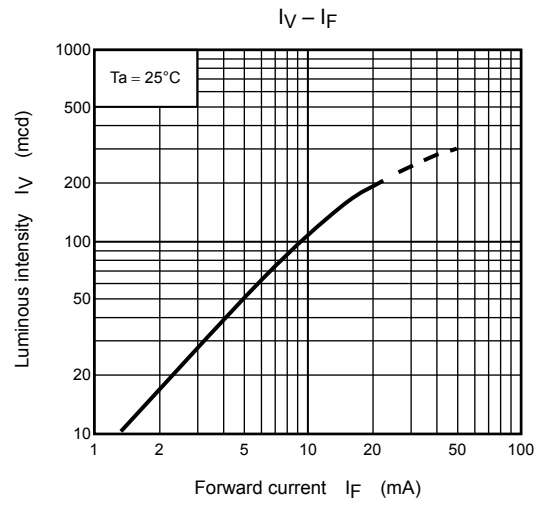
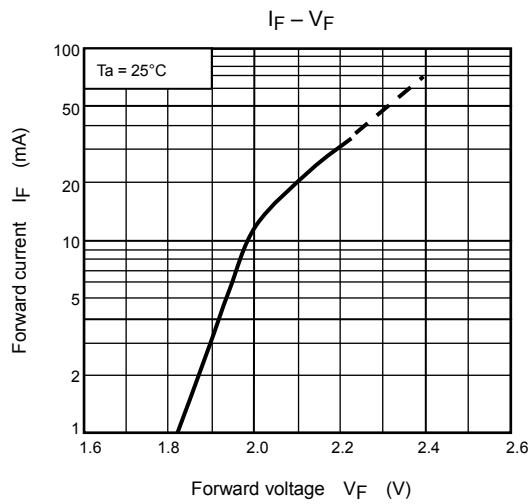
## TLOU124(F)



## TLSU124(F)



## TLYU124(F)



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