

TENTATIVE

TOSHIBA InGaAlP LED

TLOU123, TLSU123, TLYU123

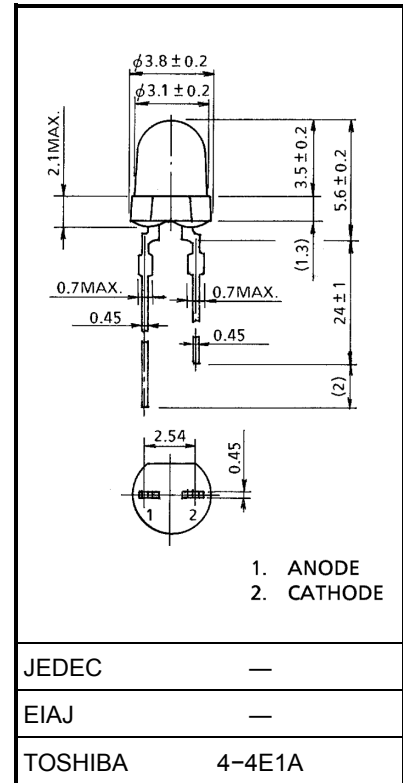
Panel Circuit Indicator

- InGaAlP LED
- All plastic mold type
- Colored transparent 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
TLOU123	Orange	InGaAlP
TLSU123	Red	InGaAlP
TLYU123	Yellow	InGaAlP

Unit in mm



Weight: 0.14 g

Maximum Ratings (Ta = 25°C)

Product	Forward Current I _F (mA)	Reverse Voltage V _R (V)	Power Dissipation P _D (mW)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
TLOU123	30	4	72	-20~75	-30~100
TLSU123	30	4	72	-20~75	-30~100
TLYU123	30	4	75	-20~75	-30~100

Electrical And Optical Characteristics (Ta = 25°C)

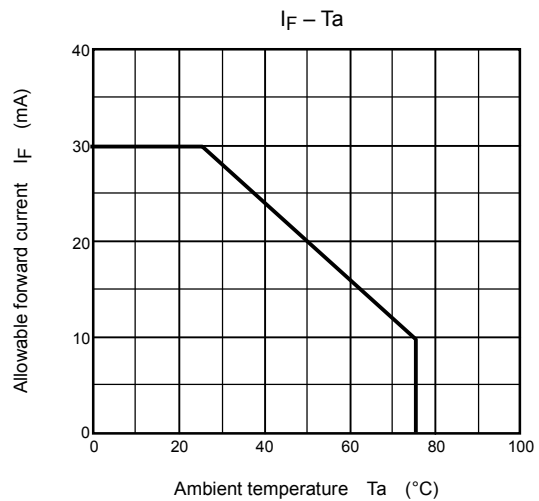
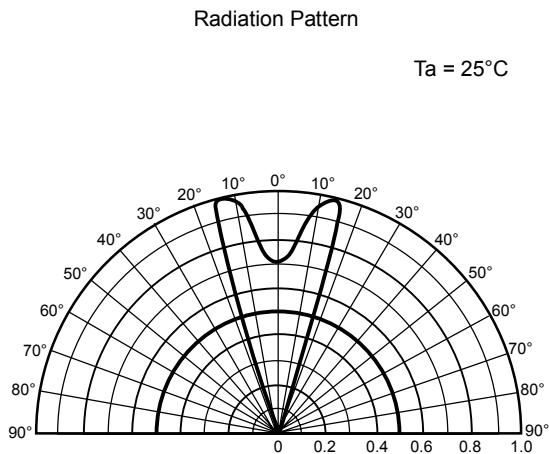
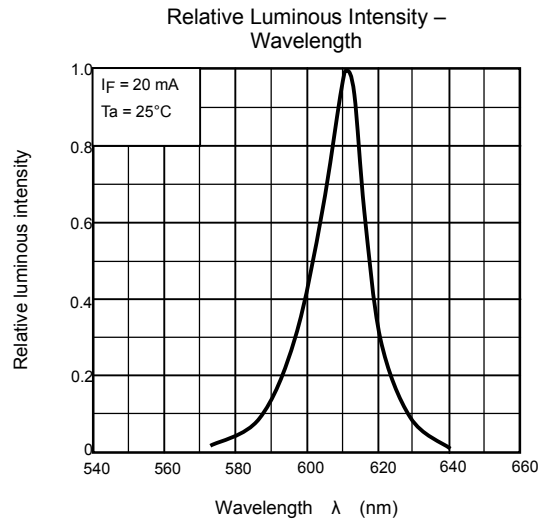
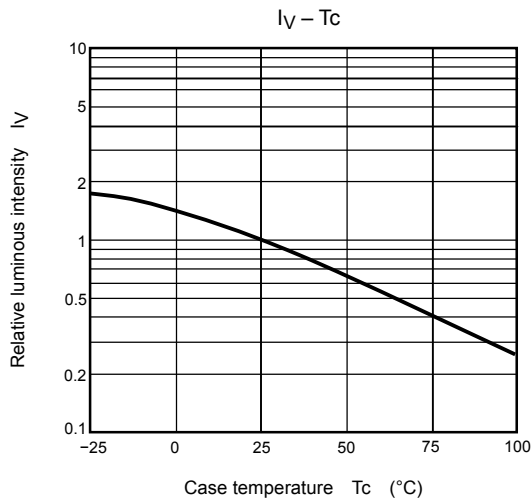
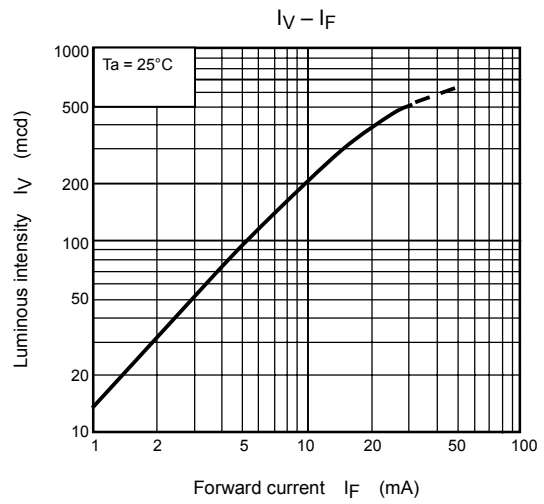
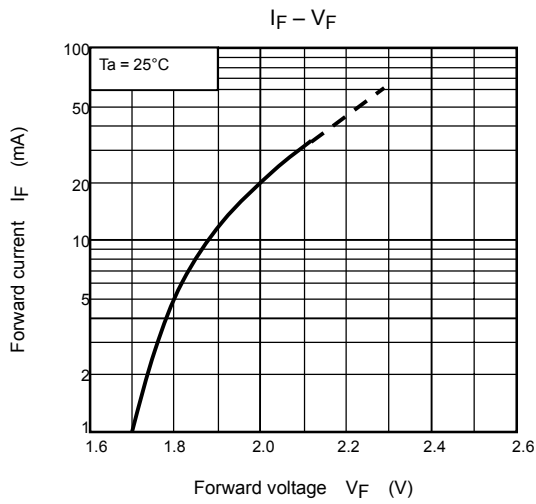
Product	Typ. Emission Wavelength			Luminous Intensity I _v			Forward Voltage V _F			Reverse Current I _R	
	λ _p	Δλ	I _F	Min	Typ.	I _F	Typ.	Max	I _F	Max	V _R
TLOU123	612	15	20	85	400	20	2.0	2.4	20	50	4
TLSU123	636	17	20	85	270	20	2.0	2.4	20	50	4
TLYU123	590	13	20	85	220	20	2.1	2.5	20	50	4
Unit	nm		mA	mcd		mA	V		mA	μA	V

Precaution

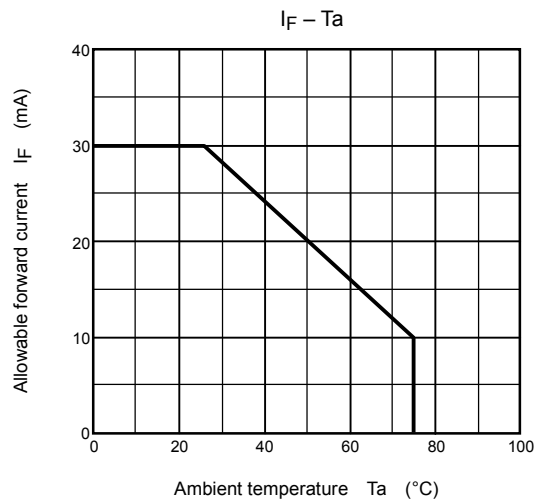
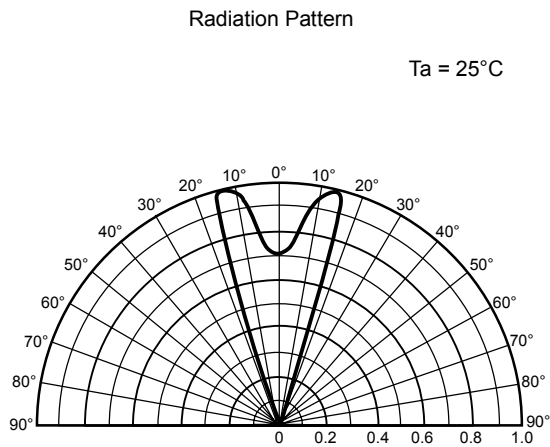
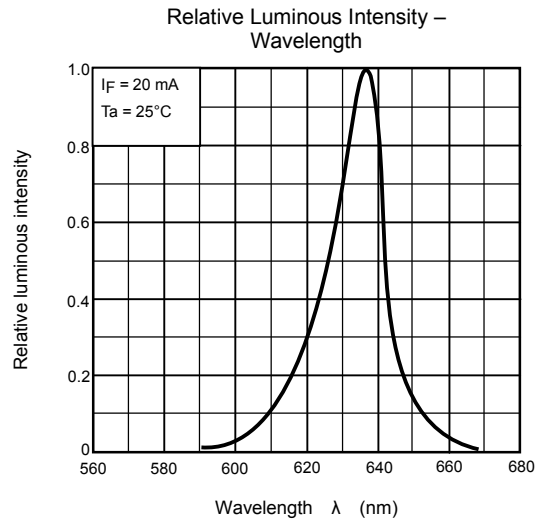
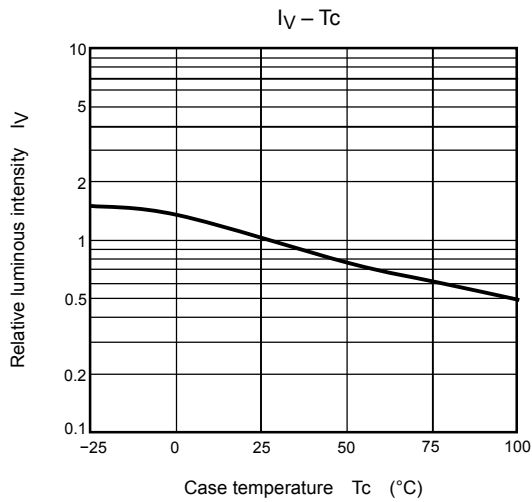
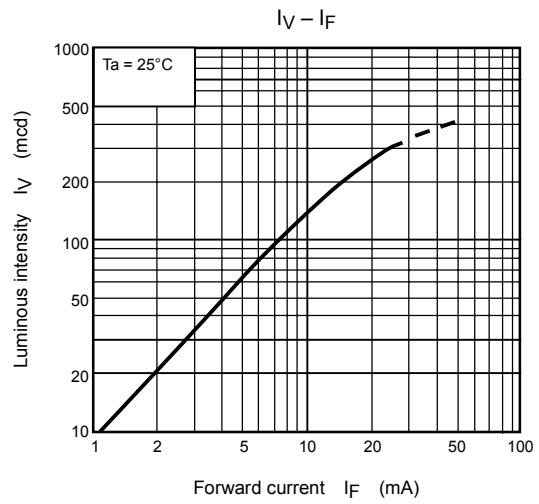
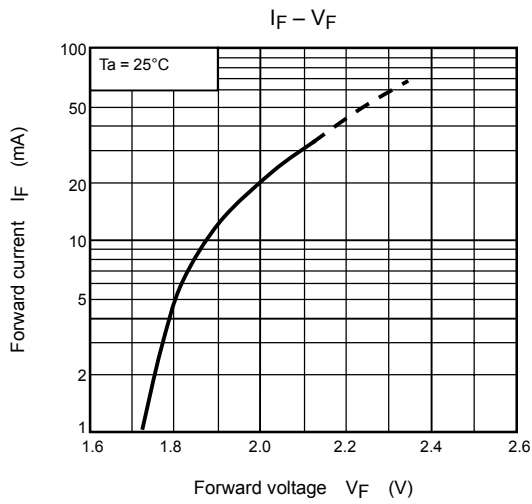
Please be careful of the followings

- 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.

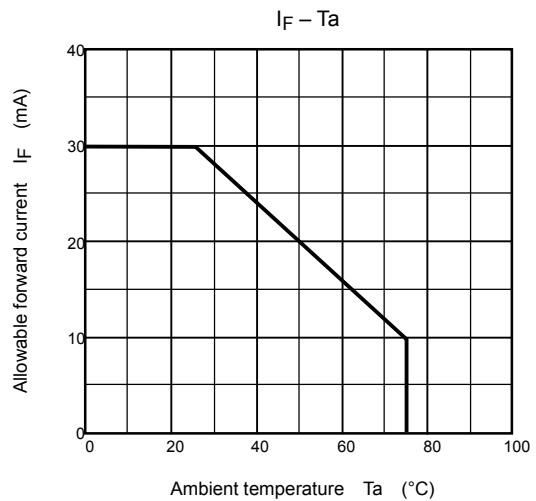
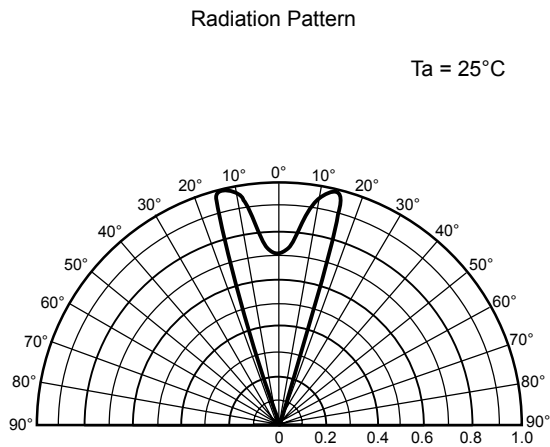
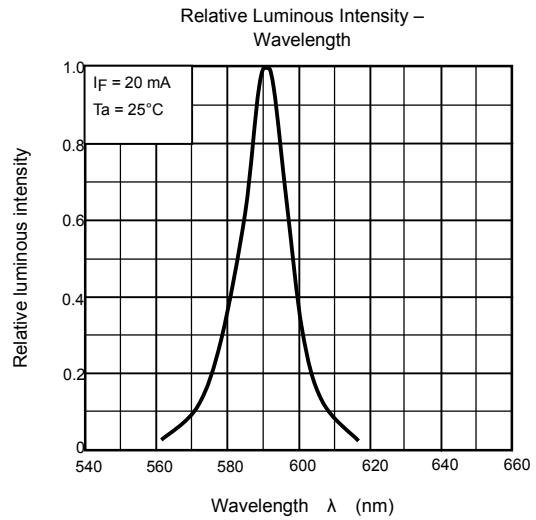
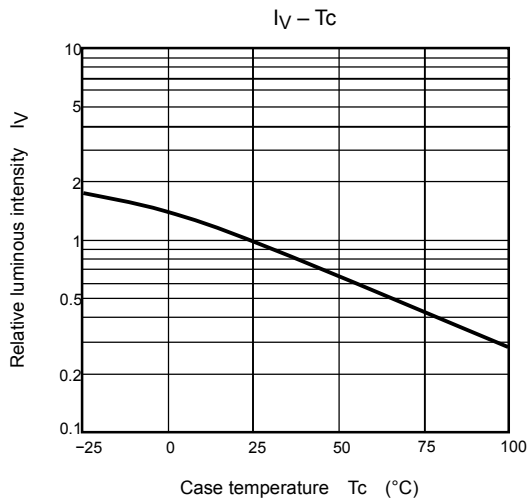
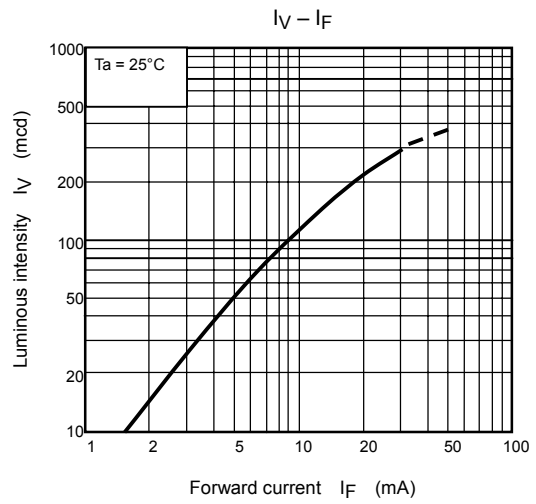
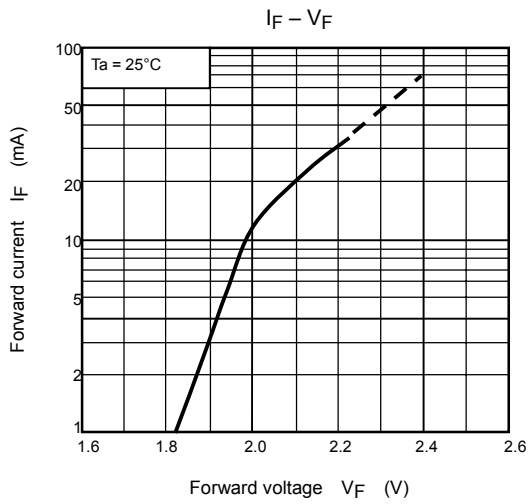
TLOU123



TLSU123



TLYU123



RESTRICTIONS ON PRODUCT USE

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