

TENTATIVE

TOSHIBA InGaAlP LED

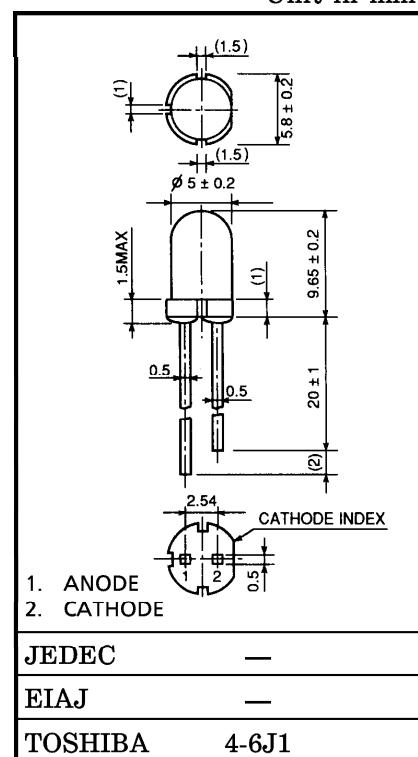
TLOU180P, TLSU180P, TLYU180P

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



Weight : 0.31 g

MAXIMUM RATINGS (Ta = 25°C)

PRODUCT	FORWARD CURRENT IF (mA)	REVERSE VOLTAGE VR (V)	POWER DISSIPATION PD (mW)	OPERATING TEMPERATURE Topr (°C)	STORAGE TEMPERATURE Tstg (°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

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- Gallium arsenide (GaAs) is a substance used in the products described in this document. GaAs dust and fumes are toxic. Do not break, cut or pulverize the product, or use chemicals to dissolve them. When disposing of the products, follow the appropriate regulations. Do not dispose of the products with other industrial waste or with domestic garbage.
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ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta = 25°C)

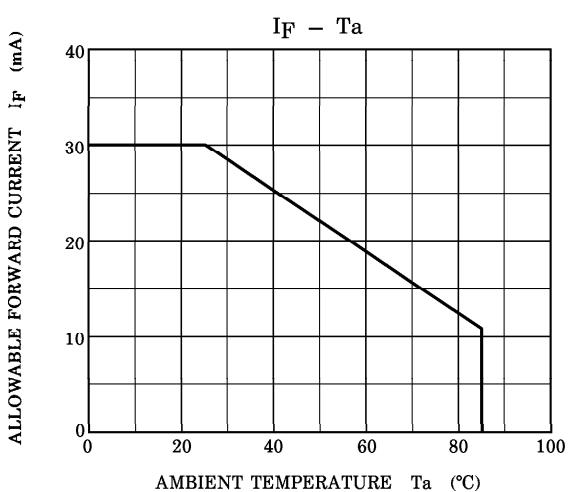
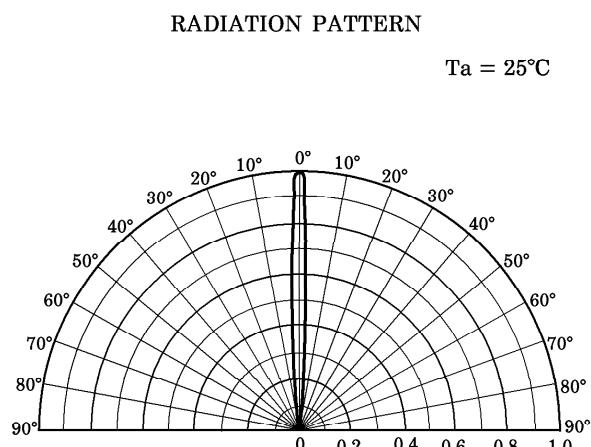
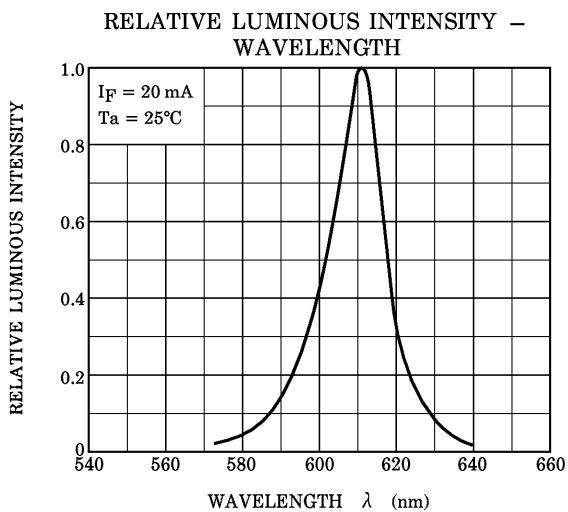
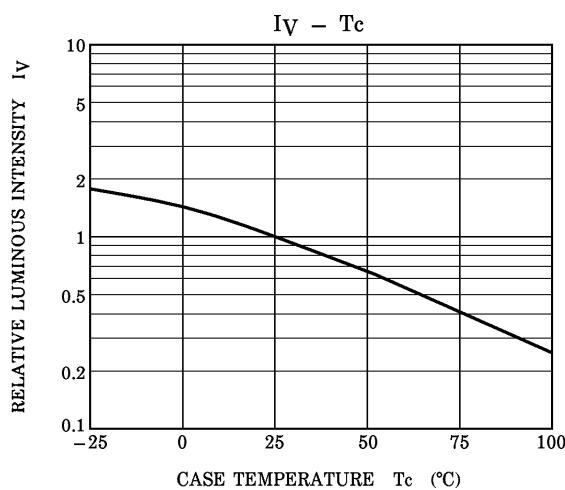
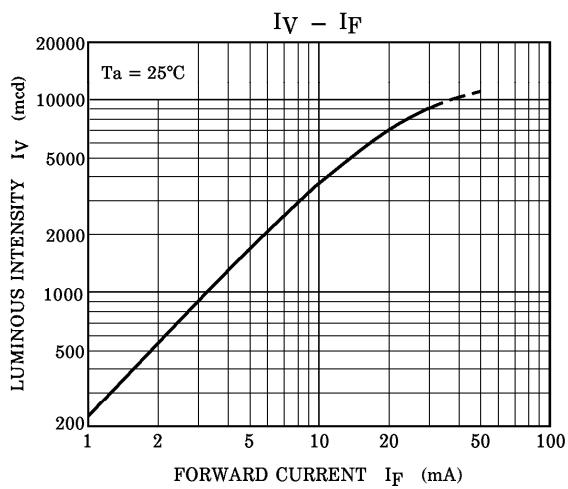
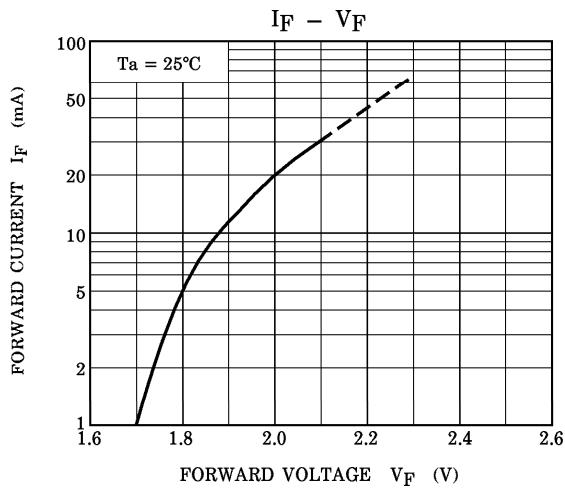
PRODUCT	TYP. EMISSION WAVELENGTH			LUMINOUS INTENSITY Iv			FORWARD VOLTAGE Vf			REVERSE CURRENT Ir	
	λ_p	$\Delta\lambda$	I_F	MIN	TYP.	I_F	TYP.	MAX	I_F	MAX	V_R
TLOU180P	612	15	20	850	7000	20	2.0	2.4	20	50	4
TLSU180P	636	17	20	850	4500	20	2.0	2.4	20	50	4
TLYU180P	590	13	20	850	4300	20	2.1	2.5	20	50	4
UNIT	nm		mA	mcd		mA	V		mA	μ A	V

PRECAUTION

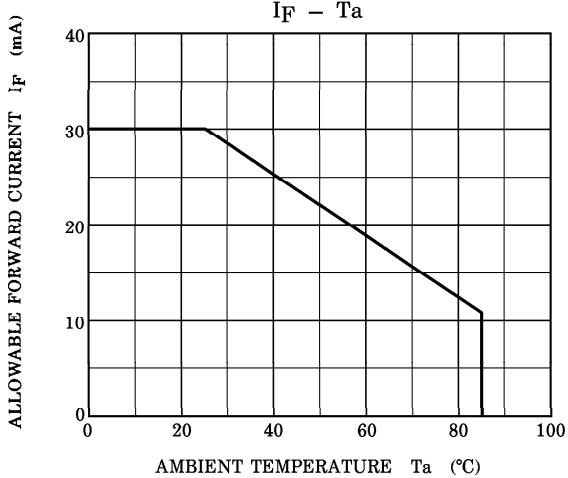
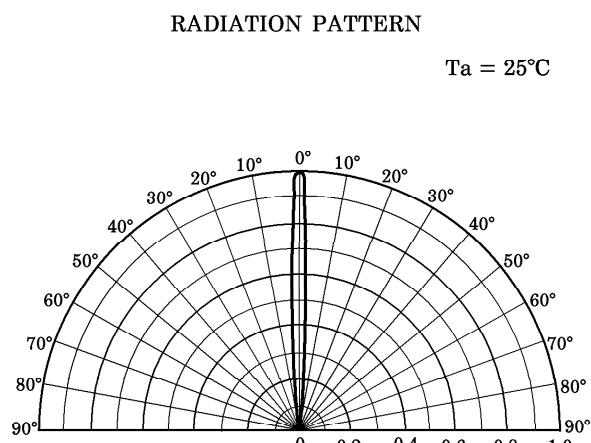
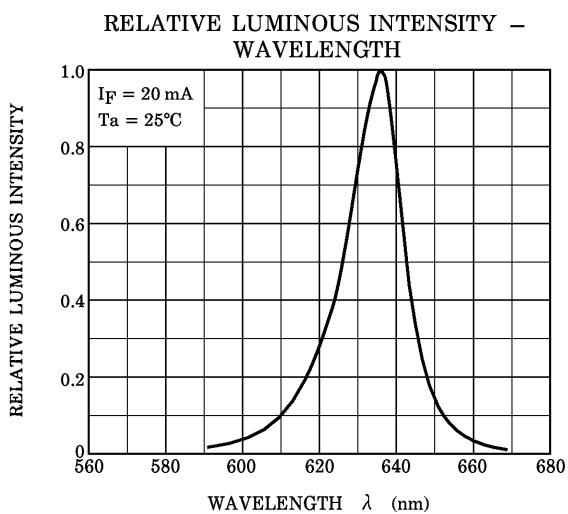
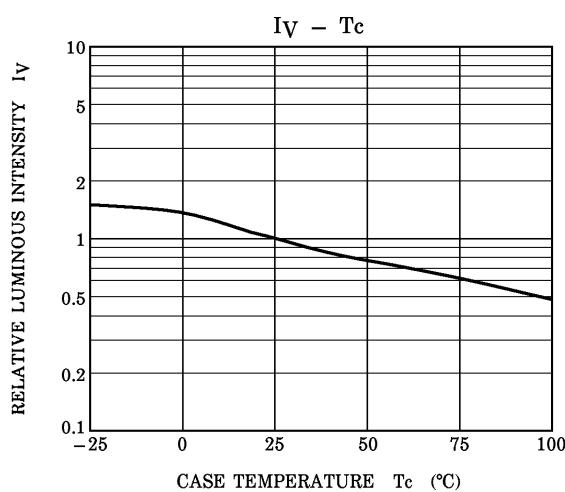
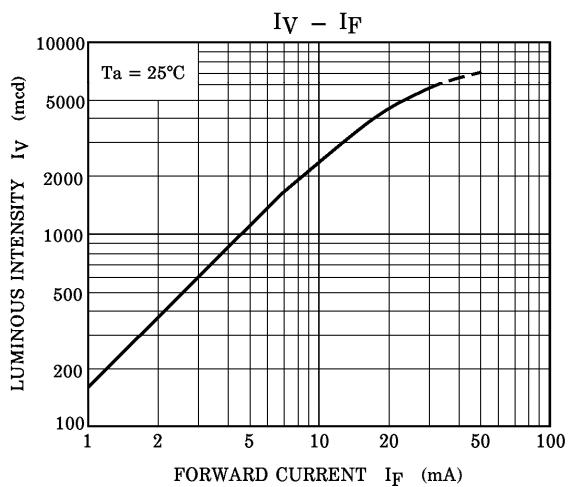
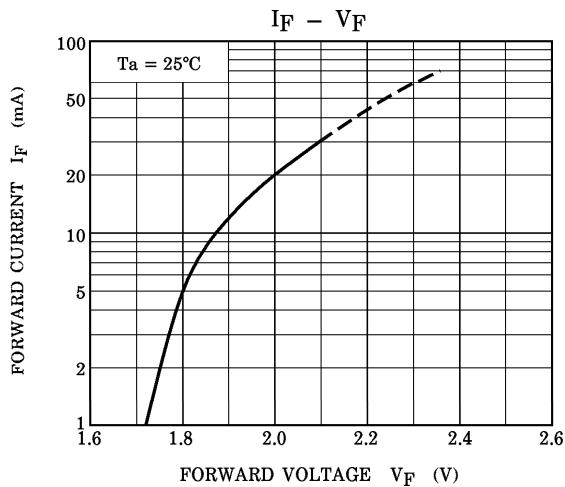
Please be careful of the followings

- 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

