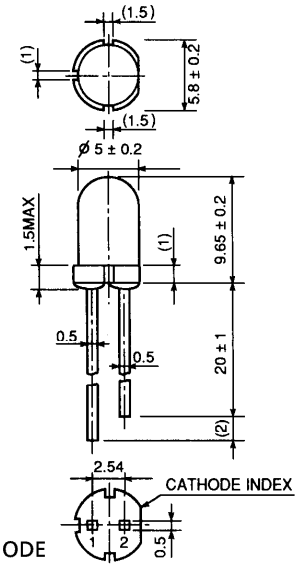
TENTATIVE

TOSHIBA InGaAℓP LED

TLOU180P, TLSU180P, TLYU180P

PANEL CIRCUIT INDICATOR

Unit in mm



JEDEC	—
EIAJ	—
TOSHIBA	4-6J1

Weight : 0.31 g

- 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

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)
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_V			FORWARD VOLTAGE V_F			REVERSE CURRENT I_R	
	λp	$\Delta\lambda$	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	μA	V

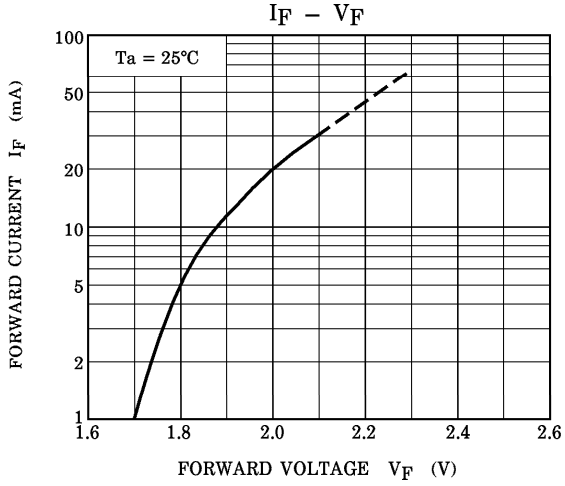
PRECAUTION

Please be careful of the followings

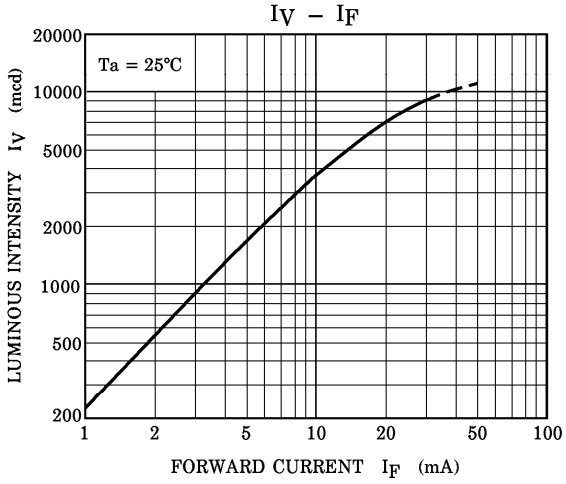
- Soldering temperature : 260°C max Soldering time : 3 s max
  (Soldering portion of lead : up to 2 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.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

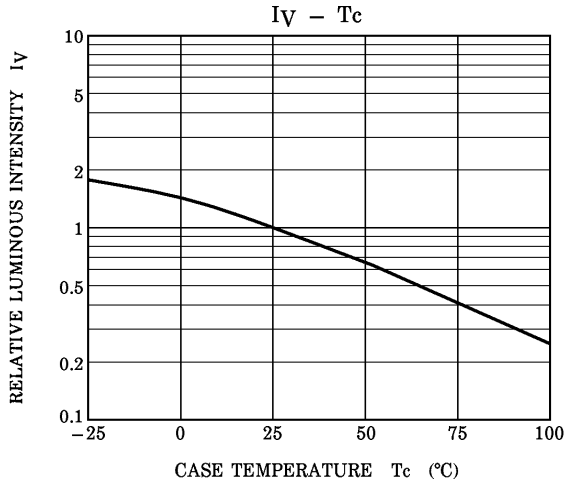
$I_F - V_F$



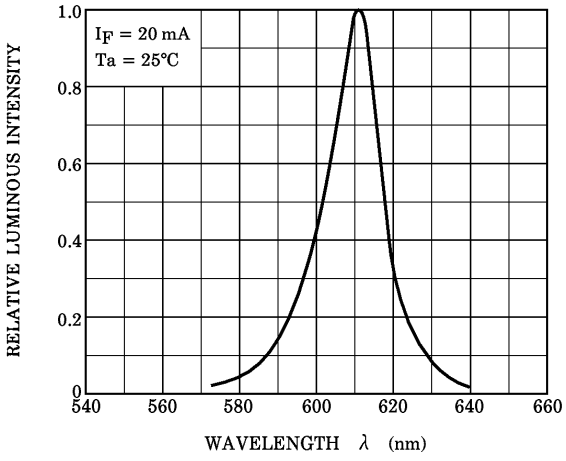
$I_V - I_F$



$I_V - Tc$

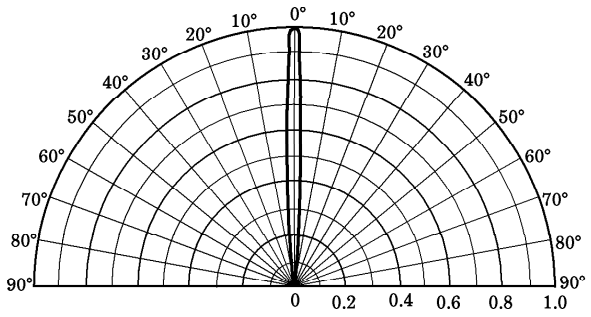


RELATIVE LUMINOUS INTENSITY – WAVELENGTH

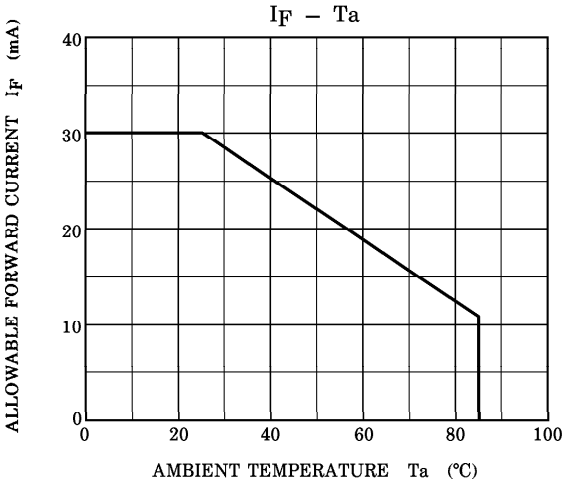


RADIATION PATTERN

Ta = 25°C

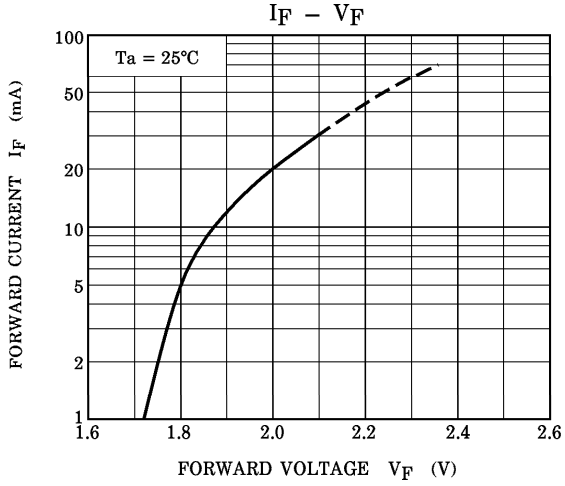


$I_F - Ta$

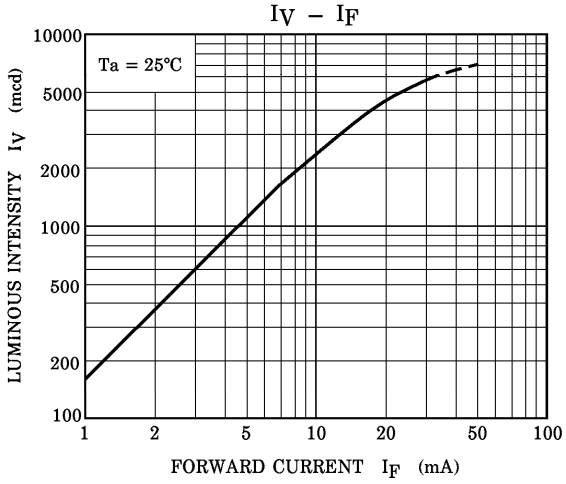


TLSU180P

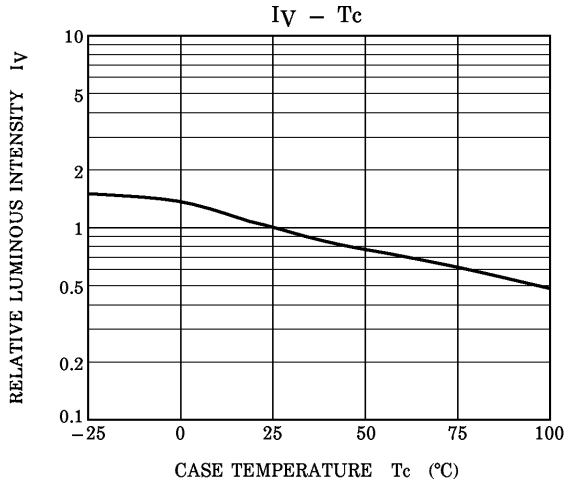
$I_F - V_F$



$I_V - I_F$



$I_V - Tc$



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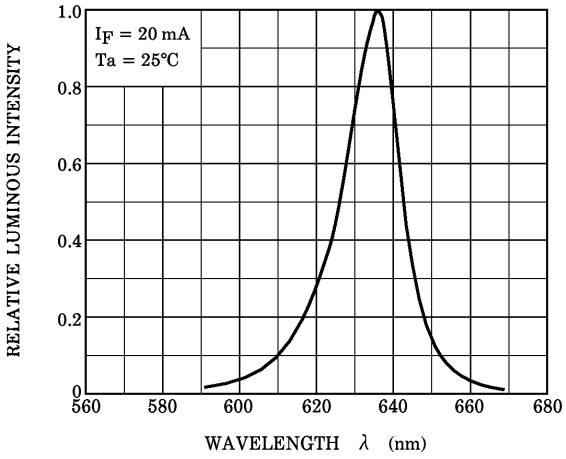

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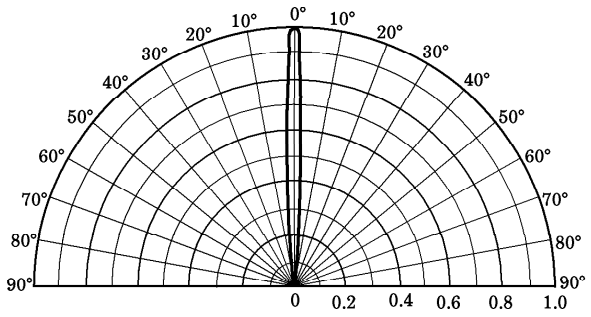
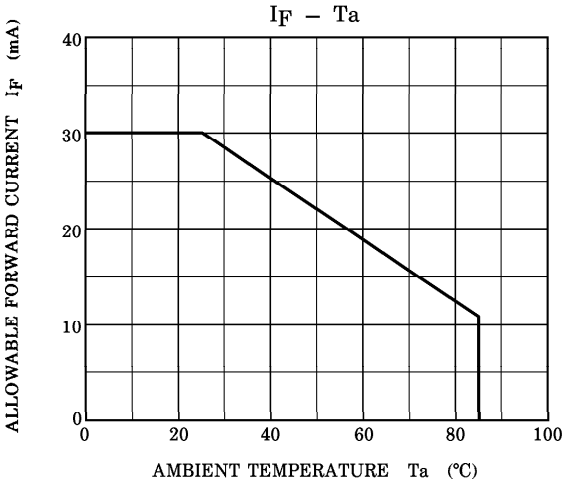
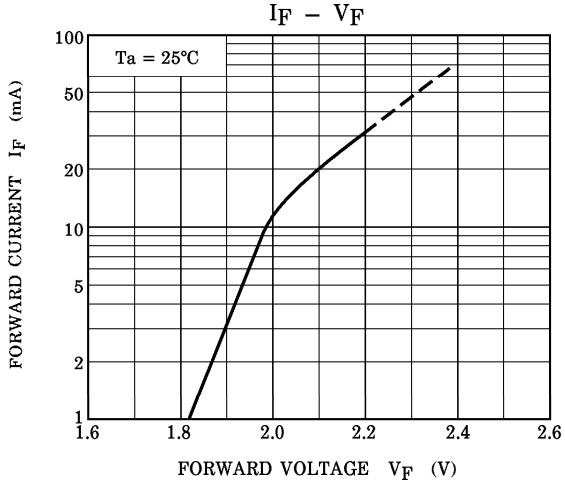


$I_F - Ta$

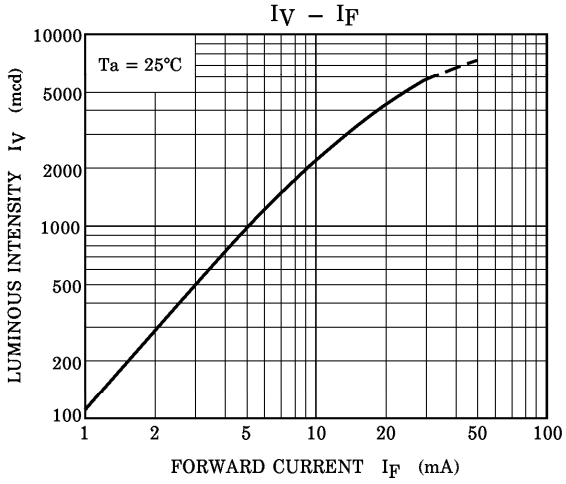


TLYU180P

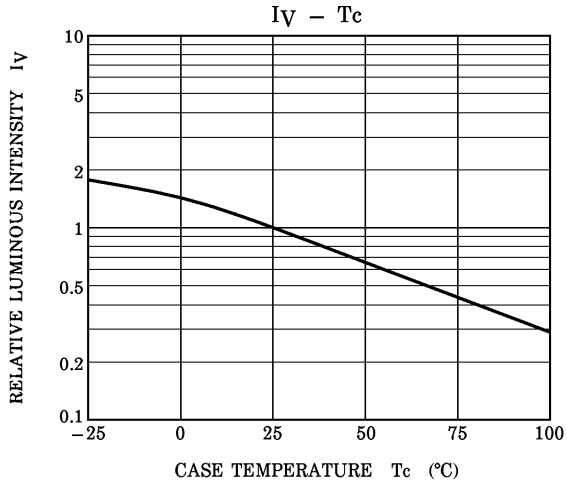
$I_F - V_F$



$I_V - I_F$



$I_V - Tc$



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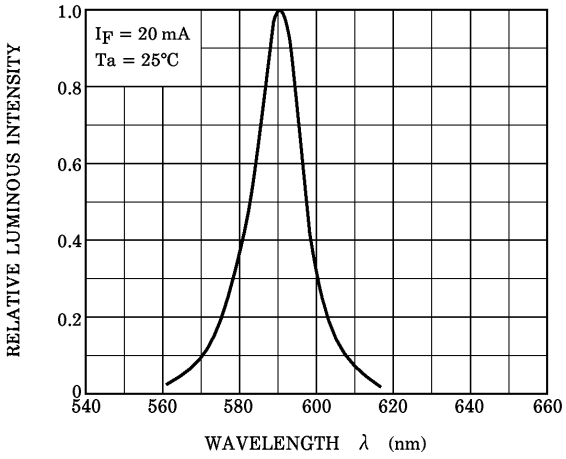

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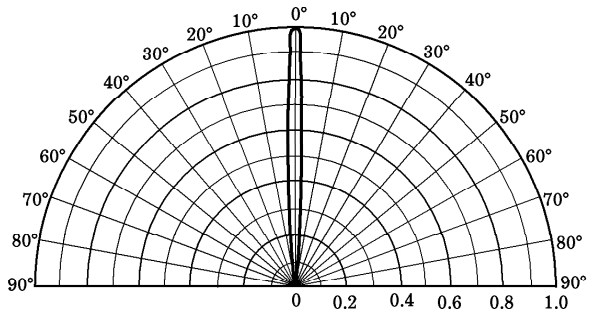
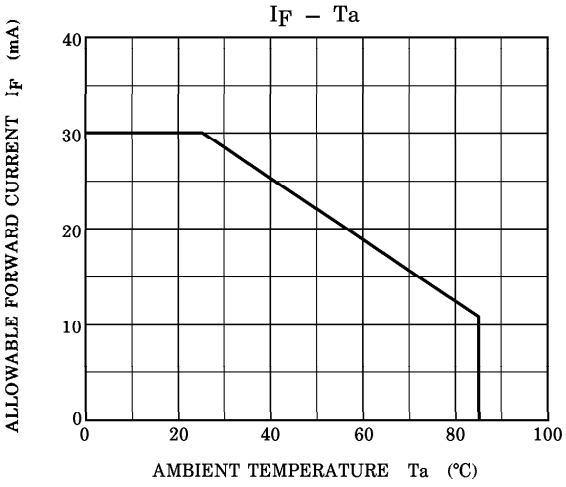


$I_F - Ta$



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