TENTATIVE

TOSHIBA InGaA&P LED

TLOU124, TLSU124, TLYU124

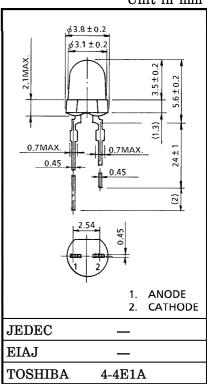
PANEL CIRCUIT INDICATOR

Unit in mm

- InGaAℓP LED
- All Plastic Mold Type
- Colored Lasterless 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	ORANGE	InGaAℓP			
TLSU124	RED	InGaAℓP			
TLYU124	YELLOW	InGaAℓP			



Weight: 0.14 g

MAXIMUM RATINGS (Ta = 25°C)

PRODUCT	FORWARD CURRENT I _F (mA)	REVERSE VOLTAGE V_R (V)	POWER DISSIPATION PD (mW)	$\begin{array}{c} \text{OPERATING} \\ \text{TEMPERATURE} \\ \text{T}_{\text{opr}} \text{ (°C)} \end{array}$	$\begin{array}{c} {\rm STORAGE} \\ {\rm TEMPERATURE} \\ {\rm T_{stg}} \ (^{\circ}{\rm C}) \end{array}$
TLOU124	30	4	72	-20~75	-30~100
TLSU124	30	4	72	-20~75	-30~100
TLYU124	30	4	75	-20~75	-30~100

TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.

● 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.

The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.

The information contained herein is subject to change without notice.

ELECTRICAL AND OPTICAL CH	HARACTERISTICS ((Ta = 2!	5°C)
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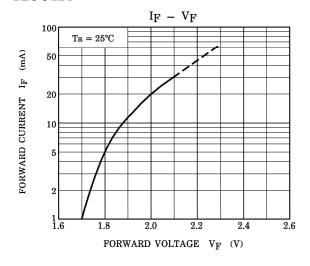
PRODUCT		. EMISS VELEN		$\begin{array}{c} \text{LUMINOUS} \\ \text{INTENSITY} \\ \text{I}_{\text{V}} \end{array}$		$\begin{array}{c} \text{FORWARD} \\ \text{VOLTAGE} \\ \text{V}_{\text{F}} \end{array}$			$\begin{array}{c} \text{REVERSE} \\ \text{CURRENT} \\ \text{I}_{\text{R}} \end{array}$		
	λp	Δλ	$I_{\mathbf{F}}$	MIN	TYP.	$I_{\mathbf{F}}$	TYP.	MAX	$I_{\mathbf{F}}$	MAX	v_{R}
TLOU124	612	15	20	47.6	180	20	2.0	2.4	20	50	4
TLSU124	636	17	20	47.6	100	20	2.0	2.4	20	50	4
TLYU124	590	13	20	47.6	110	20	2.1	2.5	20	50	4
UNIT	n	m	mA	med		mA	7	I	mA	μ A	V

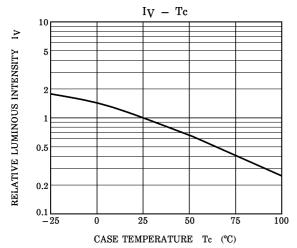
PRECAUTION

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.

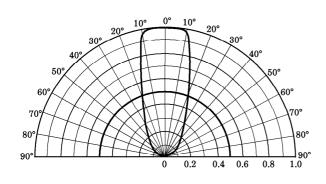
TLOU124

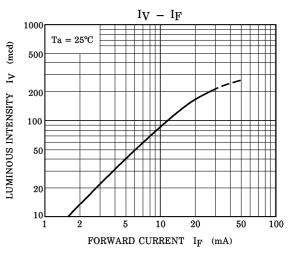


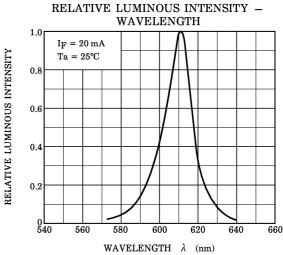


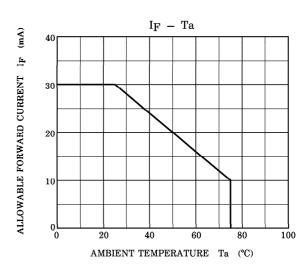
RADIATION PATTERN

 $Ta = 25^{\circ}C$

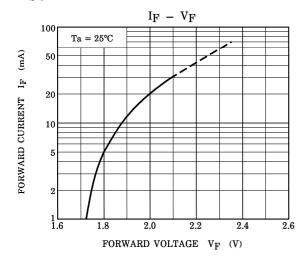


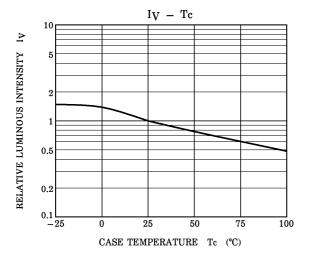






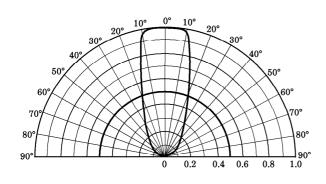
TLSU124

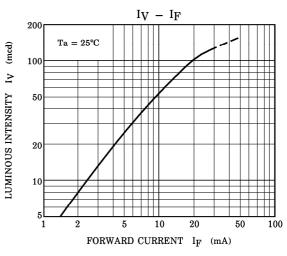


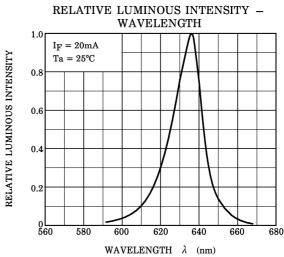


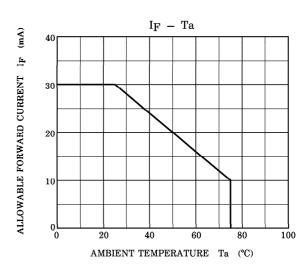
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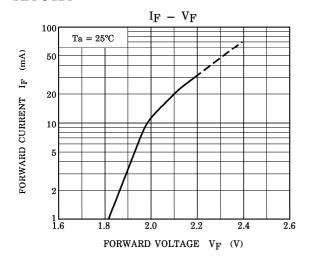


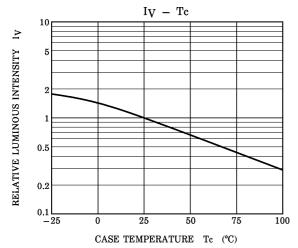


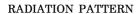




TLYU124







 $Ta = 25^{\circ}C$

