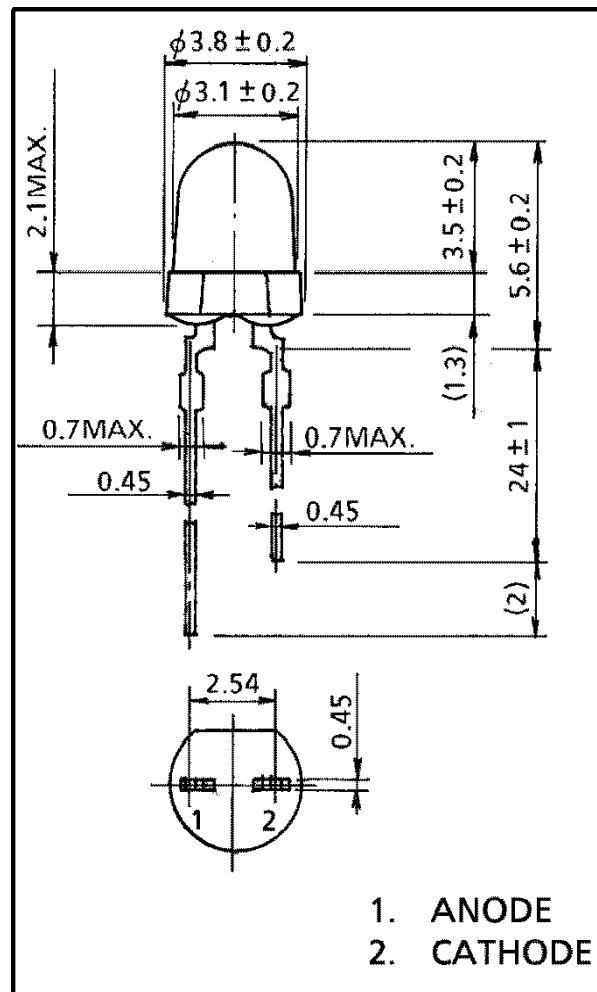


### Features

InGaAlP Technology  
3mm Package  
All Plastic Mold Type  
Colored Diffused Lens  
Excellent Low Current Light Output

### Applications

Backlight  
Decorative Lighting  
Switches  
Indicator  
Personal Equipment



### Series Line-Up

Part Number	Color	Material
TLOU124	Ultra Bright Orange	InGaAlP
TLSU124	Ultra High Efficiency Red	InGaAlP
TLYU124	Ultra Bright Yellow	InGaAlP

### Maximum Ratings (Ta=25°C)

Part Number	Forward Current I <sub>F</sub>	Reverse Voltage V <sub>R</sub>	Power Dissipation P <sub>D</sub>	Operating Temperature T <sub>opr</sub>	Storage Temperature T <sub>stg</sub>
TLOU124	30	4	72.00	-20 ~ 75	-30 ~ 100
TLSU124	30	4	72.00	-20 ~ 75	-30 ~ 100
TLYU124	30	4	75.00	-20 ~ 75	-30 ~ 100
Unit	mA	V	mW	°C	°C

**Company Headquarters**  
120 Broadway  
Menands, New York 12204  
Toll Free: 800.984.5337  
Fax: 518.432.7454



Web: [www.marktechopto.com](http://www.marktechopto.com) | Email: [info@marktechopto.com](mailto:info@marktechopto.com)

**West Coast Sales Office**  
100 Oceangate Blvd. #1200  
Long Beach, CA 90802  
Toll Free: 800.984.5337  
Fax: 562.628.5572

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

Part Number	PWL nm $\lambda_P$	Material	View Angle $2\theta_{1/2}$	Luminous Intensity $I_v$				Forward Voltage $V_F$				Rev Current $I_R$	
				min.	typ.	max.	IF @	min.	typ.	max.	IF @	max.	VR @
TLOU124	612	InGaAlP	40°	47.60	180.00	–	20mA	–	2.00	2.40	20mA	50	4V
TLSU124	636	InGaAlP	40°	47.60	100.00	–	20mA	–	2.00	2.40	20mA	50	4V
TLYU124	590	InGaAlP	40°	47.60	110.00	–	20mA	–	2.10	2.50	20mA	50	4V
–	nm	–	deg	mcd				V				mA	–

### Precautions

- 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.

### NOTICE:

- TOSHIBA is continually working to improve the quality and 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 comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such TOSHIBA products could cause loss of human life, bodily injury or damage to property.
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### Company Headquarters

120 Broadway  
Menands, New York 12204  
Toll Free: 800.984.5337  
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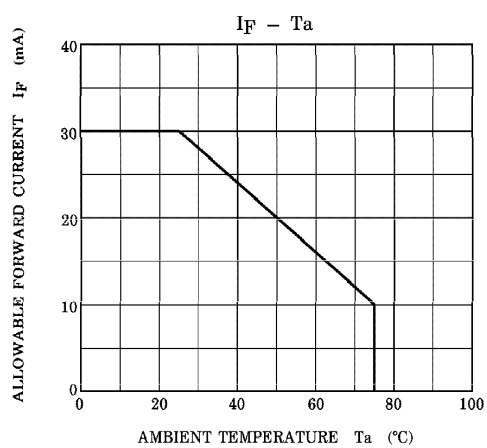
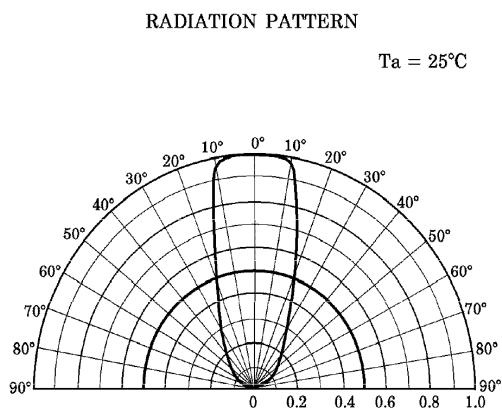
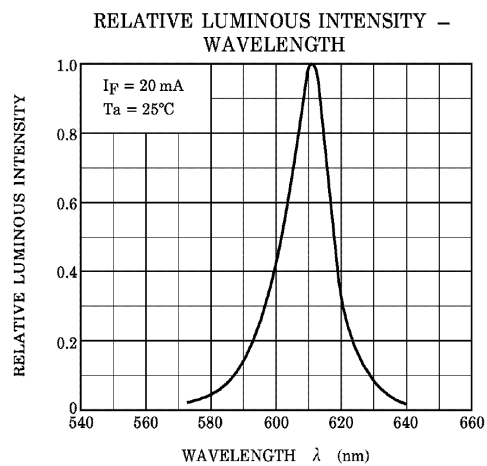
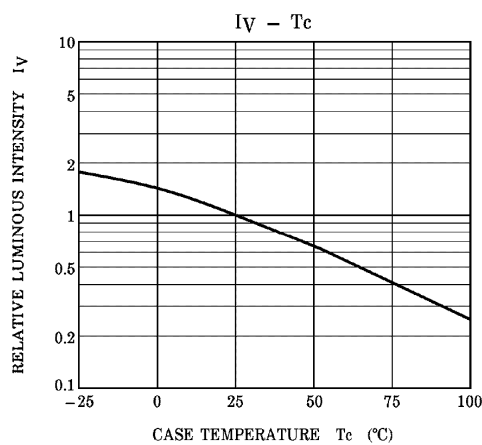
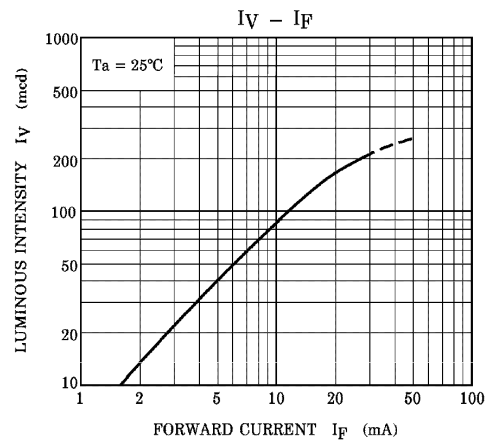
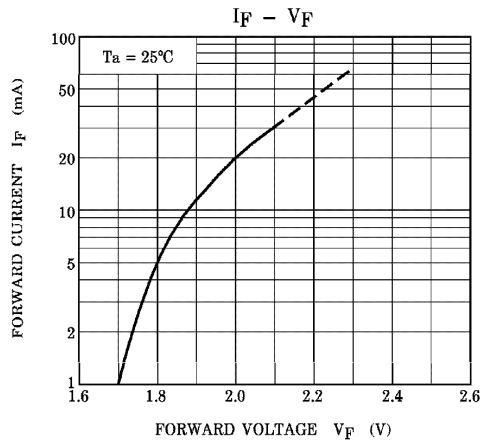


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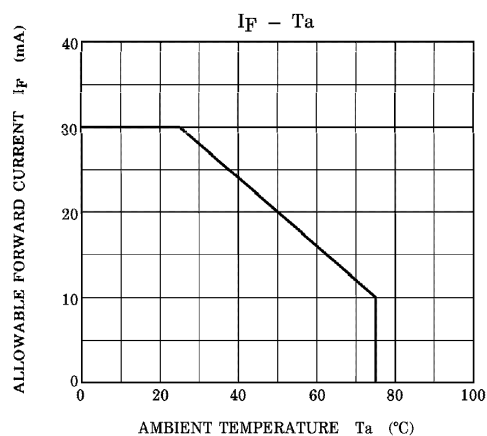
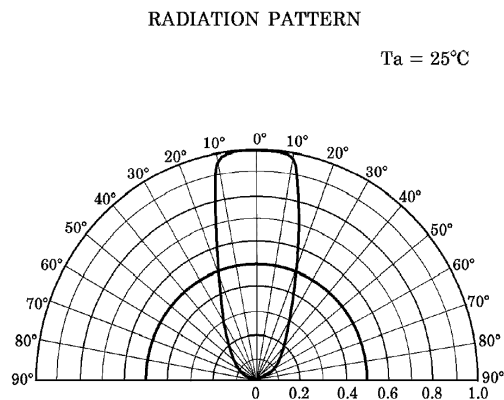
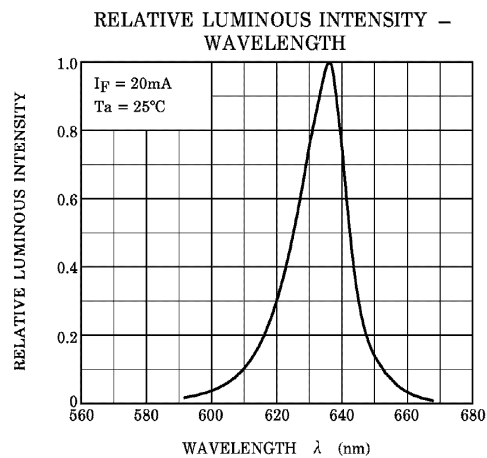
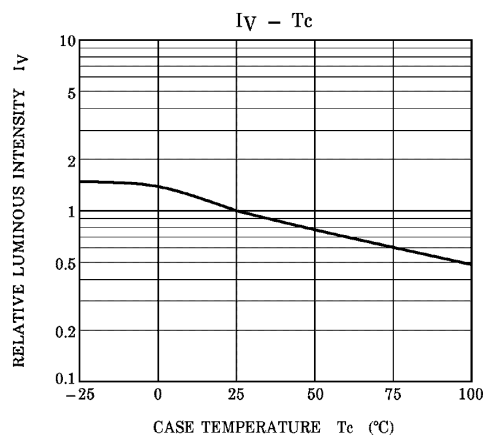
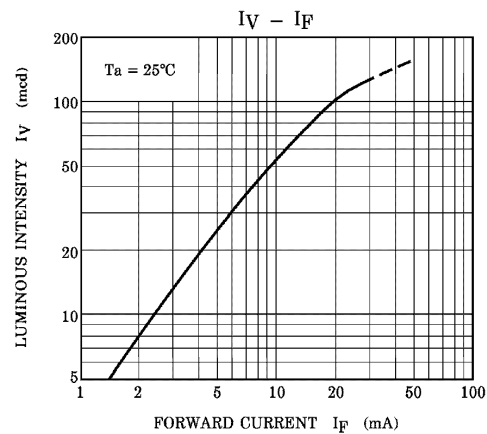
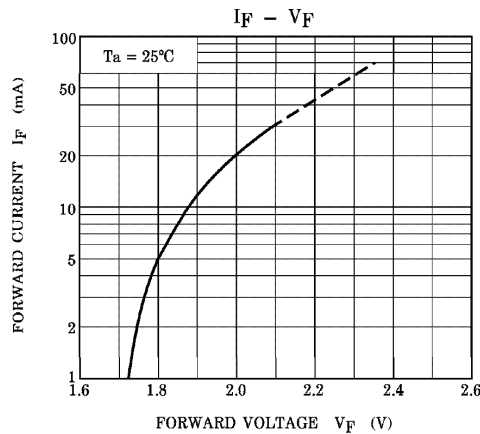
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### TLOU124 Graphs



### TLSU124 Graphs



### TLYU124 Graphs

