TOSHIBA InGaAℓP LED

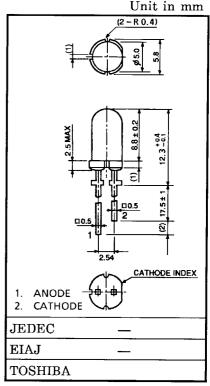
# TLGE23T, TLPGE23T

#### Panel Circuit Indicator

- 5 mm package
- InGaAlP technology
- All plastic mold type
- Transparent lens
- Excellent low current light output
- Applications: outdoor message signboards, safety equipment, automotive use, etc.

### Line-Up

Product Name	Color	Material		
TLGE23T	Green	InGaAℓP		
TLPGE23T	Pure green	IIIGaAℓF		



Weight: 0.31 g

## **Maximum Ratings (Ta = 25°C)**

Product Name	Forward Current I <sub>F</sub> (mA)	Reverse Voltage V <sub>R</sub> (V)	Power Dissipation P <sub>D</sub> (mW)	Operating Temperature T <sub>opr</sub> (°C)	Storage Temperature T <sub>stg</sub> (°C)	
TLGE23T	50	4	120	<b>−40~100</b>	-40 <b>~</b> 120	
TLPGE23T	50	4	120	<del>-40</del> 100		

o 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

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

Product Name	Typ. Emission Wavelength			Luminous Intensity I <sub>V</sub>		Forward Voltage V <sub>F</sub>			Reverse Current I <sub>R</sub>			
	$\lambda_{d}$	λ <sub>P</sub>	Δλ	I <sub>F</sub>	Min	Тур.	I <sub>F</sub>	Тур.	Max	I <sub>F</sub>	Max	$V_{R}$
TLGE23T	571	(574)	17	20	2720	7000	20	2.0	2.4	20	50	4
TLPGE23T	558	(562)	14	20	850	3000	20	2.1	2.4	20	50	4
Unit		nm		mA	m	cd	mA	\	/	mA	μΑ	V

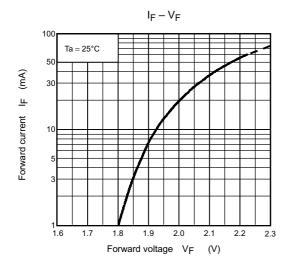
#### **Precautions**

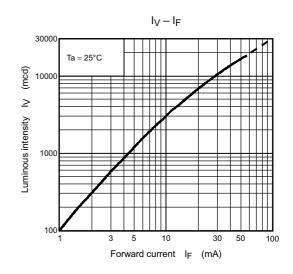
Please be careful of the following:

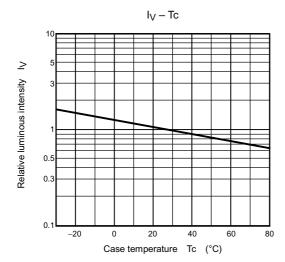
- Soldering temperature: 260°C max, soldering time: 3 s max (soldering portion of lead: below the lead stopper)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible LED lamp also emits some IR light.

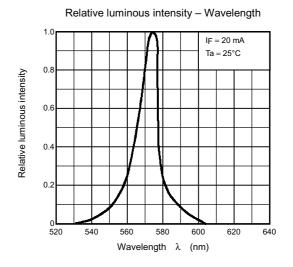
  If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.

TLGE23T



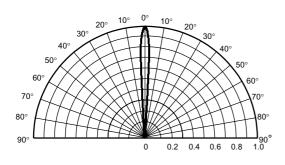


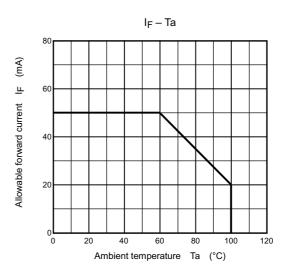




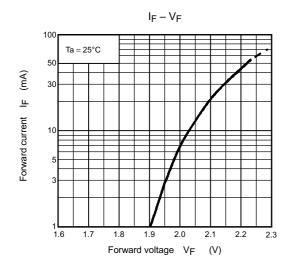
Radiation pattern

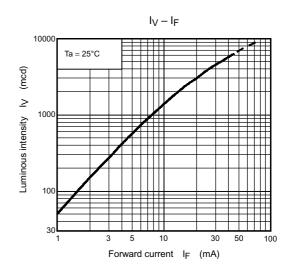
 $Ta = 25^{\circ}C$ 

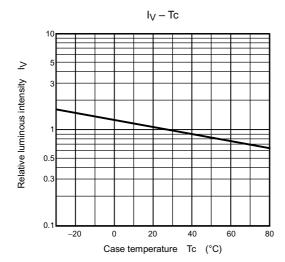


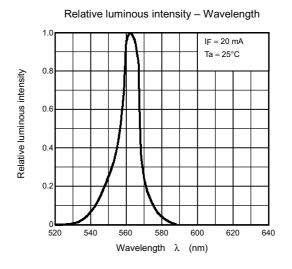


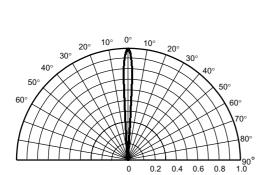
TLPGE23T











Radiation pattern

 $Ta = 25^{\circ}C$ 

