TOSHIBA InGaAℓP LED

TLGE23TP,TLPGE23TP

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		
TLGE23TP	Green	InGaAℓP		
TLPGE23TP	Pure green	IIIGAA(F		

Unit in mm CATHODE INDEX ANODE CATHODE **JEDEC EIAJ** TOSHIBA

Weight: 0.31 g

Maximum Ratings (Ta = 25°C)

Product Name	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)	
TLGE23TP	50	4	120	−40~100	-40 ~ 120	
TLPGE23TP	50	4	120	-4 0 100		

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

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Electrical and Optical Characteristics (Ta = 25°C)

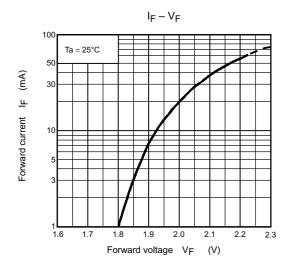
Product Name	Typ. Emission Wavelength			Luminous Intensity I _V		Forward Voltage V _F			Reverse Current I _R			
	λ_{d}	λ _P	Δλ	I _F	Min	Тур.	I _F	Тур.	Max	I _F	Max	V_{R}
TLGE23TP	571	(574)	17	20	2720	7000	20	2.0	2.4	20	50	4
TLPGE23TP	558	(562)	14	20	850	3000	20	2.1	2.4	20	50	4
Unit	nm		mA	mcd		mA	V m/		mA	μΑ	V	

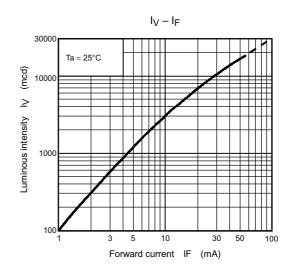
Precautions

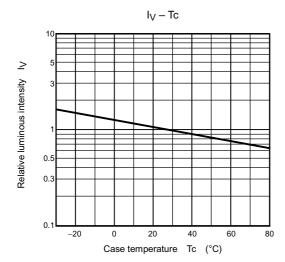
- Please be careful of the following:
- Soldering temperature: 260°C max, soldering time: 3 s max (soldering portion of lead: up to 2 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible LED lamp also emits some IR light.

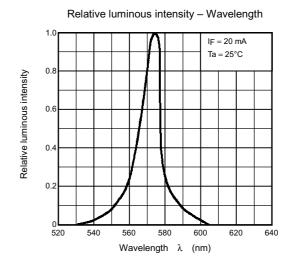
 If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.

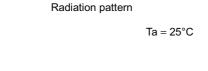
TLGE23TP

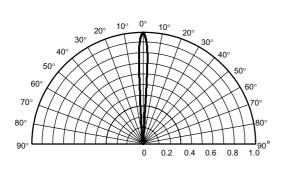


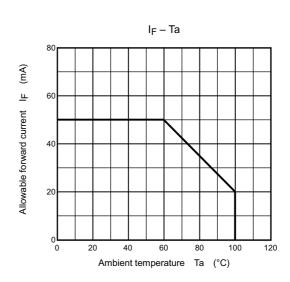




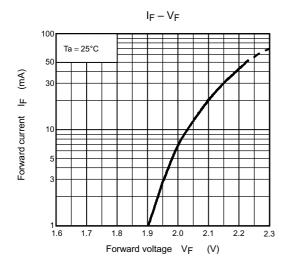


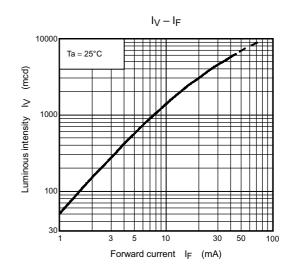


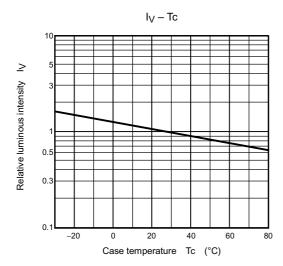


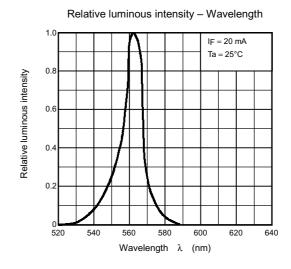


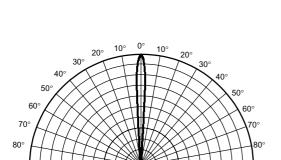
TLPGE23TP











Radiation pattern

 $Ta = 25^{\circ}C$

0.4 0.6 0.8 1.0

