

TOSHIBA InGaAℓP LED

TLGE19TP,TLPGE19TP

Panel Circuit Indicator

5 mm package

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

Line-Up

Product Name	Color	Material		
TLGE19TP	Green	InGaAℓP		
TLPGE19TP	Pure green	ΠΟάλει		

Unit in mm <u>Q</u> **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)	
TLGE19TP	50	4	120	−40~100	−40 ~ 120	
TLPGE19TP	50	4	120	-4 0 -100		

of 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}
TLGE19TP	571	(574)	17	20	476	1300	20	2.0	2.4	20	50	4
TLPGE19TP	558	(562)	14	20	153	500	20	2.1	2.4	20	50	4
Unit		nm		mA	m	cd	mA	\	/	mA	μΑ	٧

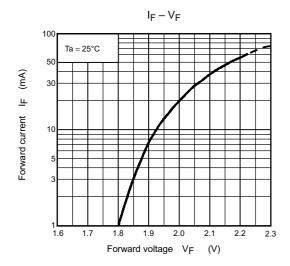
Precautions

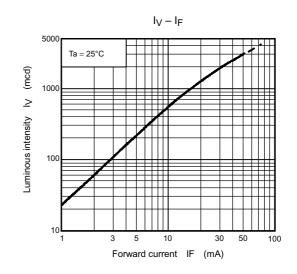
Please be careful of the following:

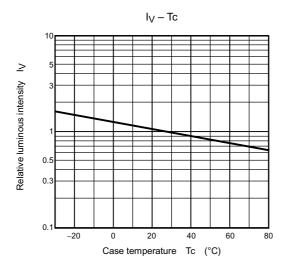
- Soldering temperature: 260°C max, soldering time: 3 s max (soldering portion of lead: up to 2 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.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

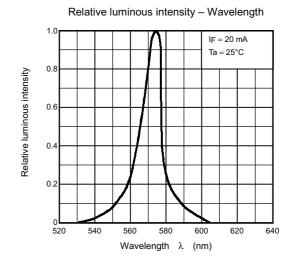
 If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.

TLGE19TP



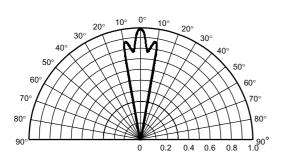


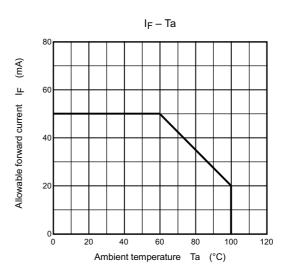




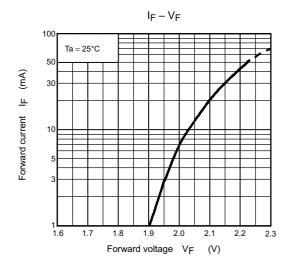
Radiation pattern

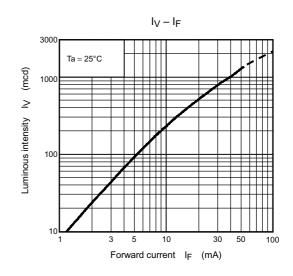
 $Ta = 25^{\circ}C$

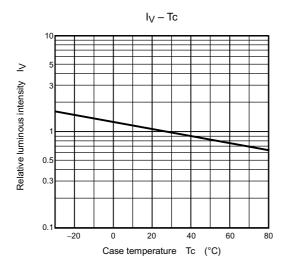


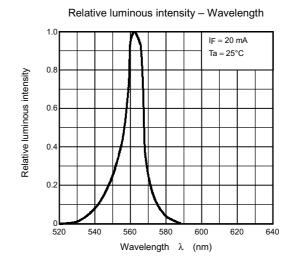


TLPGE19TP









Radiation pattern $Ta = 25^{\circ}C$

