

TOSHIBA LED Lamp InGaAlP Pure Green Light Emission

TLPGE159P

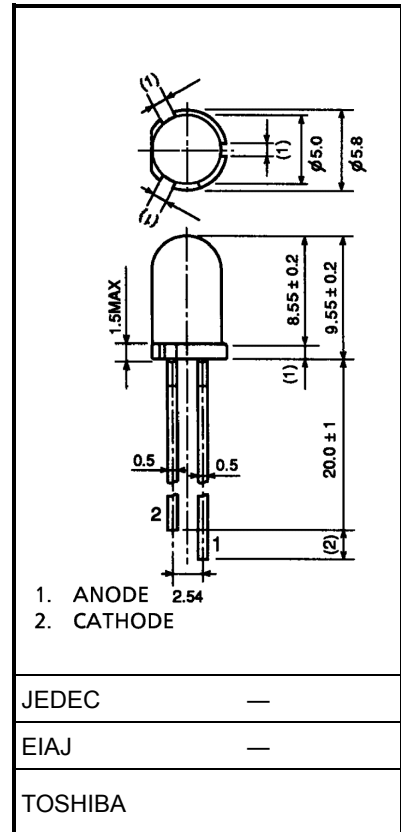
Panel Circuit Indicator

- 5mm diameter(t1-3 / 4)
- InGaAlP pure green LED
- All plastic mold type.
- Colorless clear lens
- Low drive current,high intensity pure green light emission
Recommended forward current: $I_F = 15\sim 20\text{mA(DC)}$
- All plastic molded lens,provides an excellent on-off contrast ratio.
- Fast response time,capable of pulse operation.
- High power luminous intensity
- Without stand-offs
- Applications: Suitable for traffic signal,safety equipment,automotive use,etc.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Forward current (DC)	I_F	50	mA
Reverse voltage	V_R	4	V
Power dissipation	P_D	140	mW
Operating temperature range	T_{opr}	-30~85	°C
Storage temperature range	T_{stg}	-40~120	°C

Unit in mm



Weight: 0.31 g

Electrical And Optical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V_F	$I_F=20\text{mA}$	—	2.27	2.8	V
Reverse current	I_R	$V_R=4\text{V}$	—	—	50	μA
Luminous intensity	I_V	$I_F=20\text{mA}$ (Note)	153	430	—	mcd
Peak emission wavelength	λ_p	$I_F=20\text{mA}$	—	562	—	nm
Spectral line half width	$\Delta\lambda$	$I_F=20\text{mA}$	—	11	—	nm
Dominant wavelength	λ_d	$I_F=20\text{mA}$	—	558	—	nm

(Note): Lamps are classified into the following ranks according to their luminous intensity.

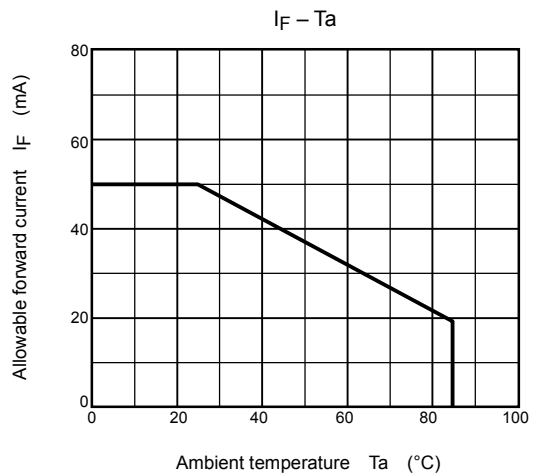
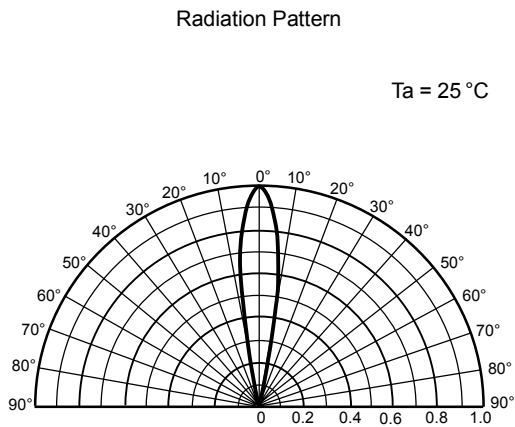
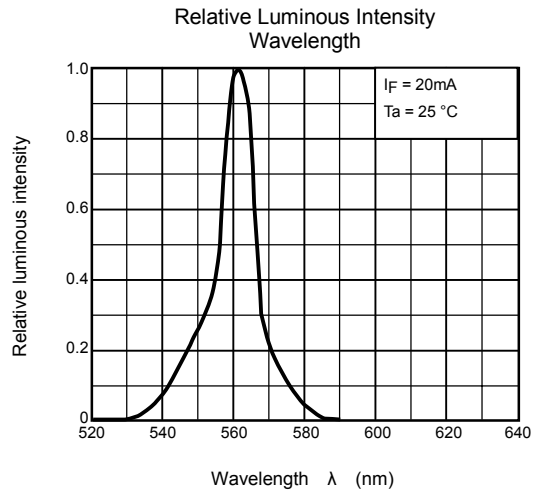
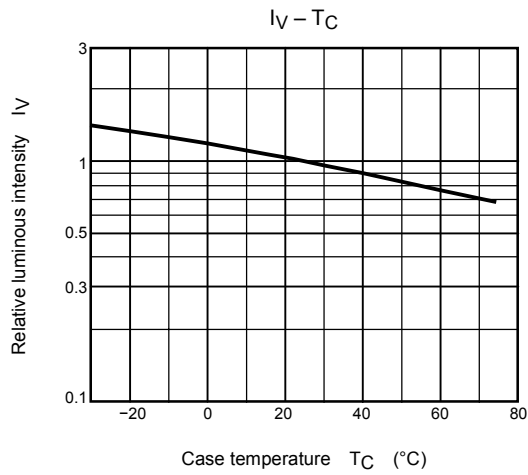
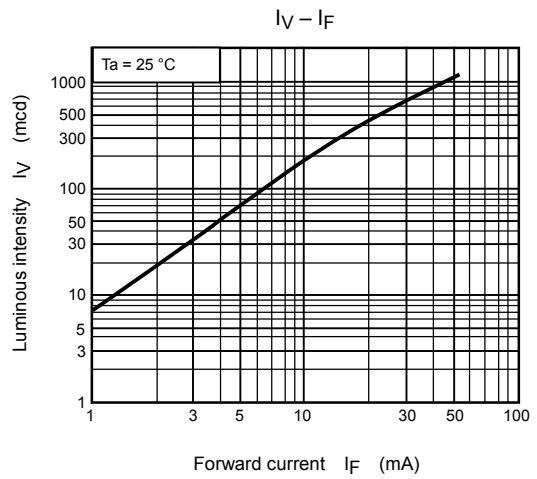
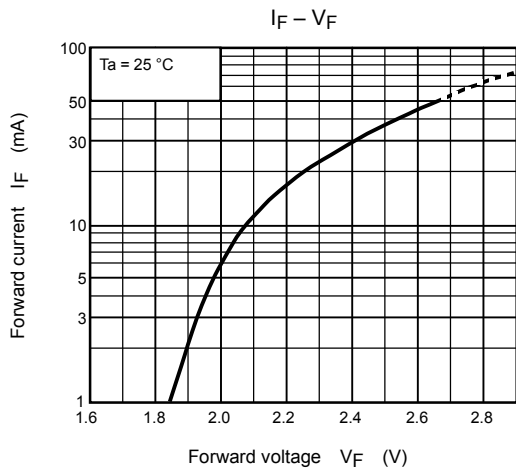
Measurement tolerance for each limit is $\pm 15\%$.

P: 180–360mcd, Q: 320–640mcd, R: 560–1120mcd

Precaution

Please be careful of the followings

- Soldering temperature: 260°C max Soldering time: 3s max
(soldering portion of lead: up to 2mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5mm 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.



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