

TENTATIVE

TOSHIBA LED Lamp InGaAlP Green Light Emission

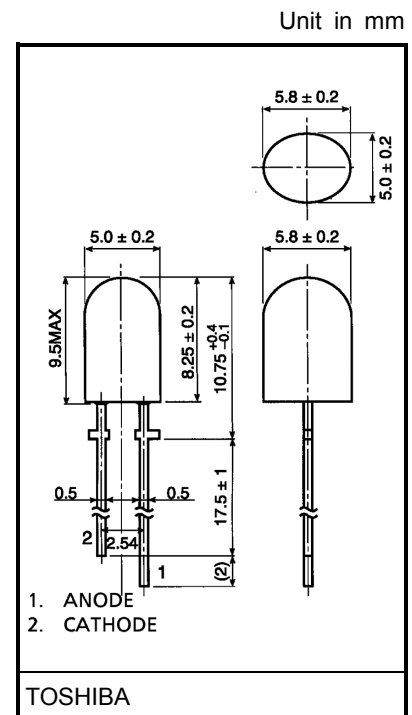
TLGE247

Panel Circuit Indicator

- InGaAlP green LED
- Elliptical lens: Colorless clear lens
- Wide radiation
- Low drive current, high intensity green light emission
- Plastic molded colorless clear lens provides for high contrast of on-off ratio.
- Fast response time, capable of pulse operation.
- Applications: Suitable for outdoor message signboard, full color panel, backlight.

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Forward current	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



Electrical And Optical Characteristics (Ta = 25°C)

Characteristic	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	400	—	mcd
Peak emission wavelength	λ_p	$I_F = 20\text{mA}$	—	574	—	nm
Spectral line half width	$\Delta\lambda$	$I_F = 20\text{mA}$	—	11	—	nm
Dominant wavelength	λ_d	$I_F = 20\text{mA}$	—	571	—	nm

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

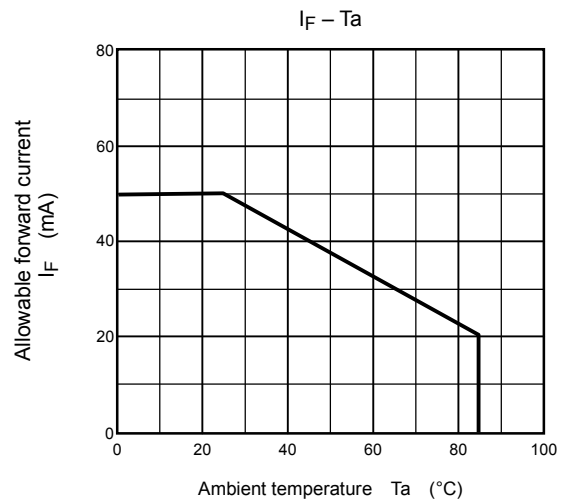
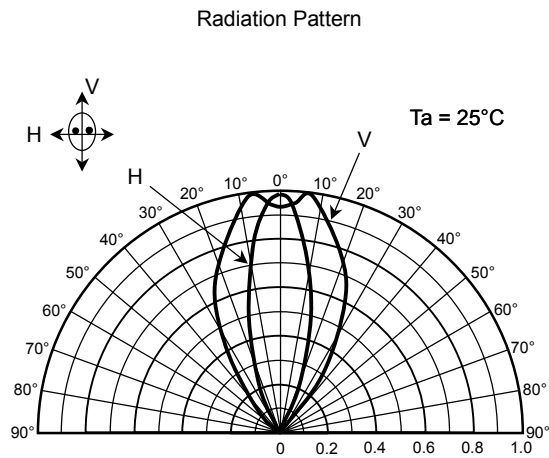
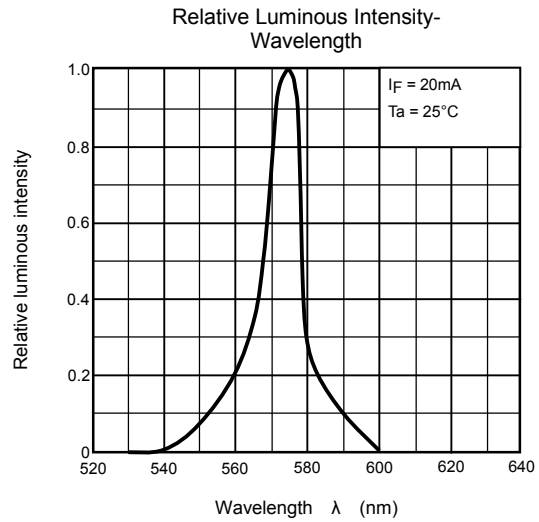
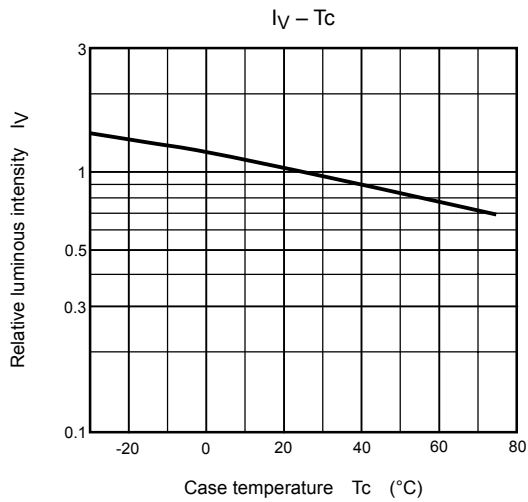
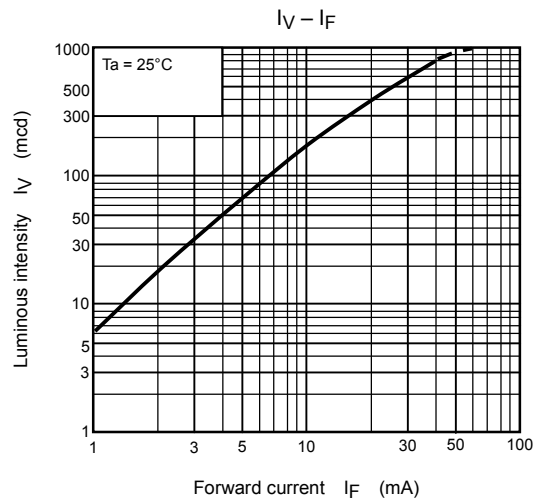
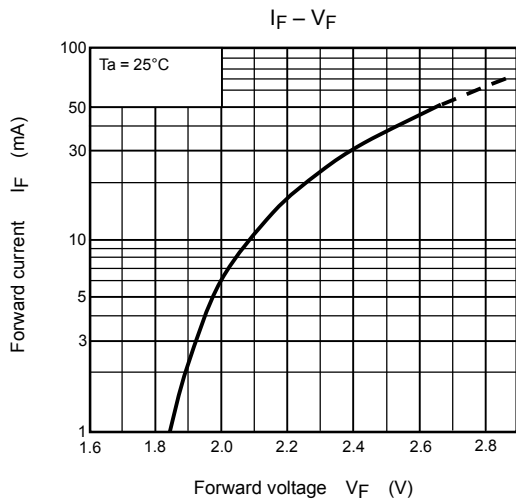
Measurement tolerance for each limit is $\pm 15\%$.

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

Precaution

Please be careful of the following

- Soldering temperature: 260°C max soldering time: 3s max
(Soldering portion of lead: Below the lead stopper)
- 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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