

**TENTATIVE**

TOSHIBA LED Lamp InGaAlP Green Light Emission

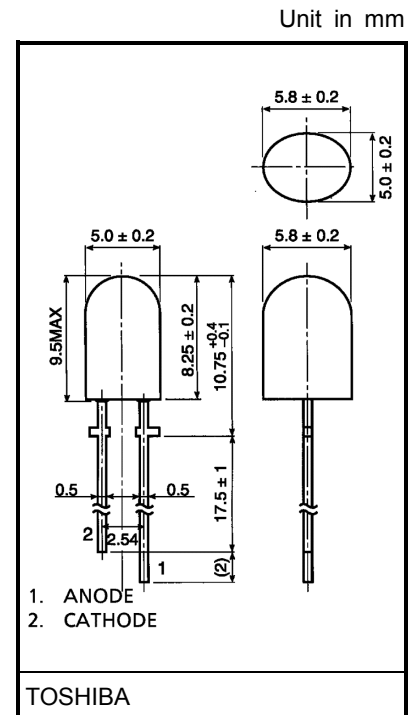
# TLGE248

## Panel Circuit Indicator

- InGaAlP green LED
- Elliptical lens: Colored transparent lens
- Wide radiation
- Low drive current, high intensity green light emission
- Plastic molded colored transparent 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 <sub>F</sub>	50	mA
Reverse voltage	V <sub>R</sub>	4	V
Power dissipation	P <sub>D</sub>	140	mW
Operating temperature range	T <sub>opr</sub>	-30~85	°C
Storage temperature range	T <sub>stg</sub>	-40~120	°C



Weight: 0.3g

## Electrical And Optical Characteristics(Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	—	2.27	2.8	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =4V	—	—	50	μA
Luminous intensity	I <sub>v</sub>	I <sub>F</sub> =20mA (Note)	153	360	—	mcd
Peak emission wavelength	λ <sub>P</sub>	I <sub>F</sub> =20mA	—	574	—	nm
Spectral line half width	Δλ	I <sub>F</sub> =20mA	—	11	—	nm
Dominant wavelength	λ <sub>d</sub>	I <sub>F</sub> =20mA	—	571	—	nm

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

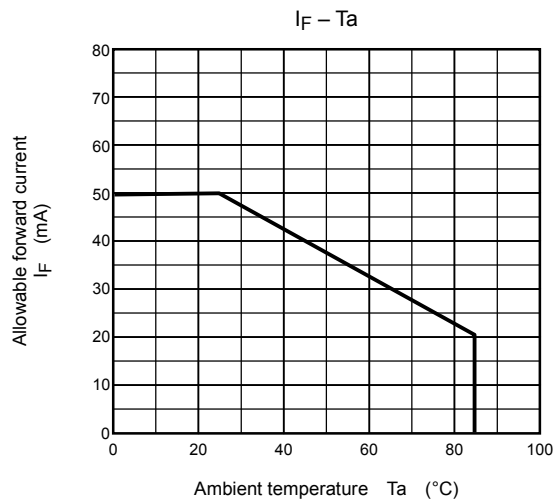
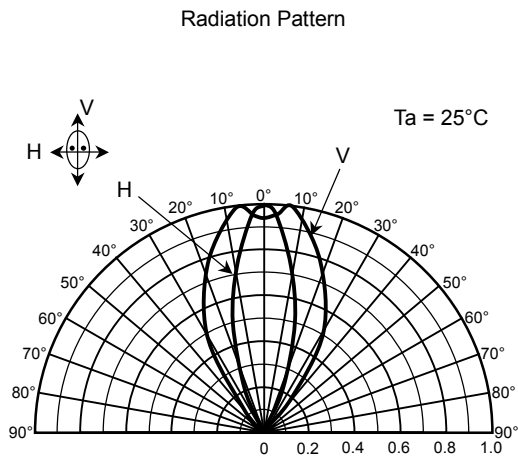
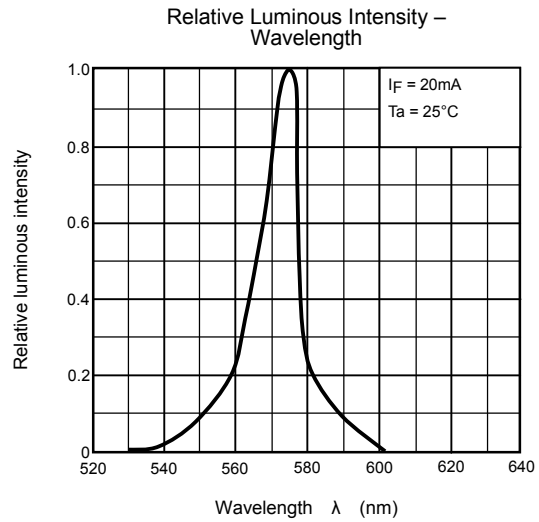
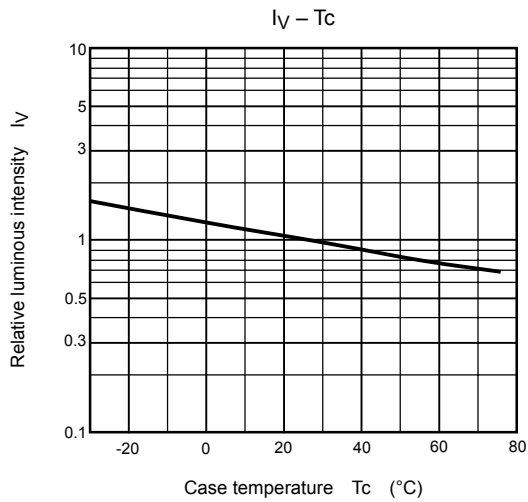
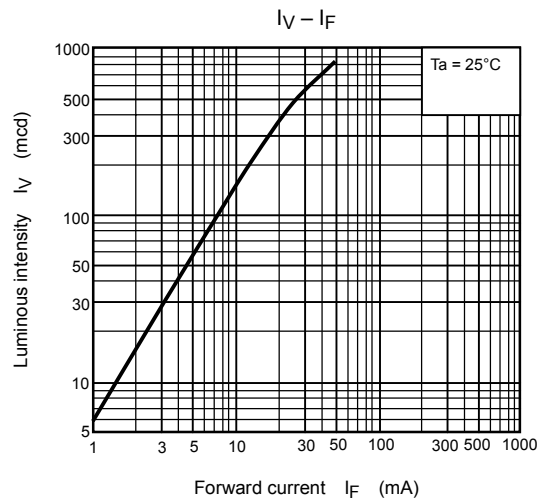
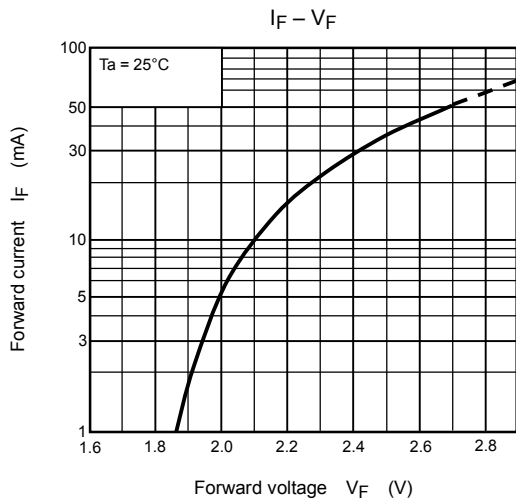
Measurement tolerance for each limit is ±15%.

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

**Precaution**

Please be careful of the followings

- 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 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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