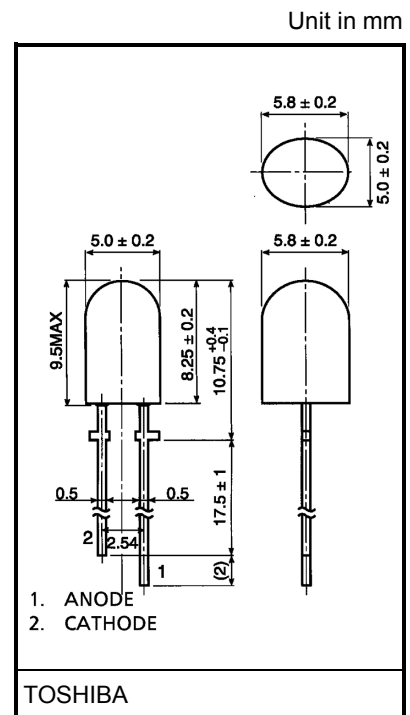


TENTATIVE TOSHIBA LED Lamp InGaAlP Pure Green Light Emission

TLPGE247

Panel Circuit Indicator

- InGaAlP pure green LED
- Elliptical lens: Colorless clear lens
- Wide radiation
- Low drive current, high intensity pure 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.



Weight: 0.3g

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)

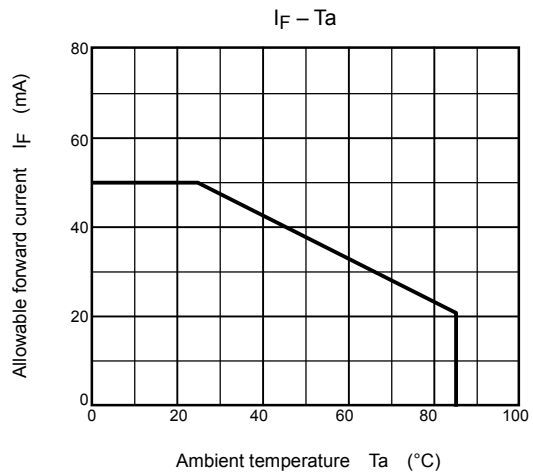
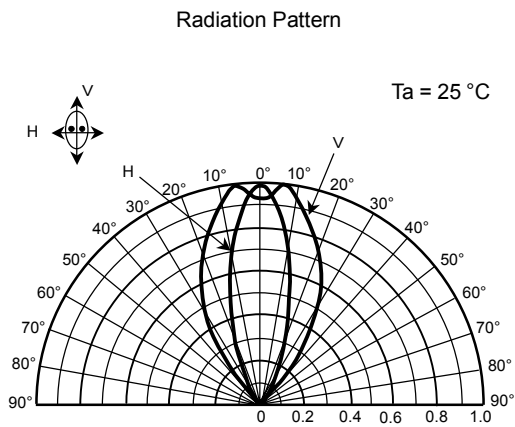
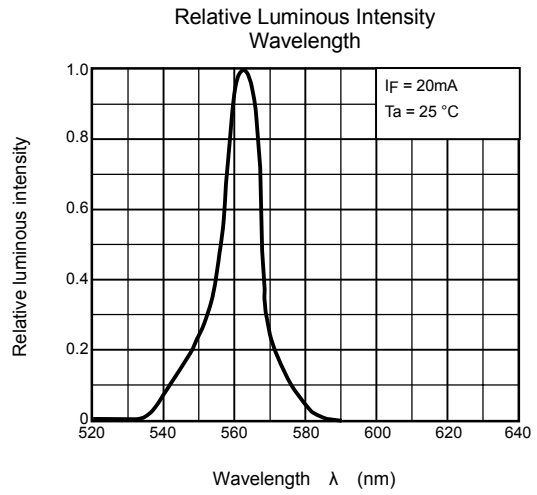
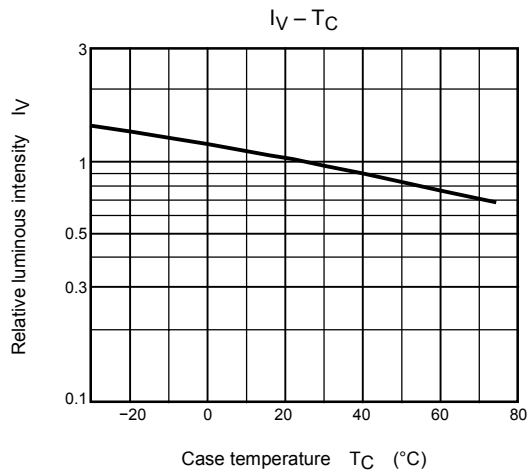
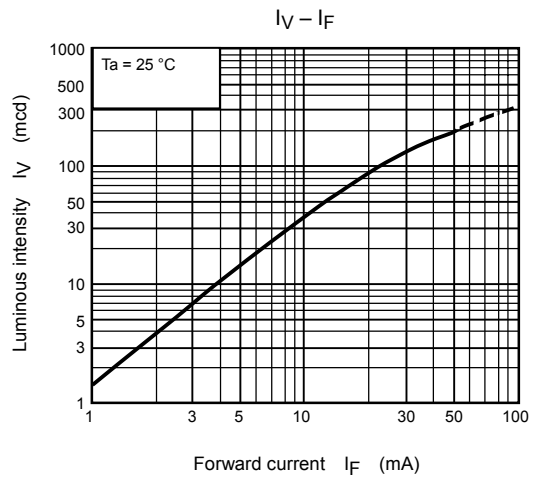
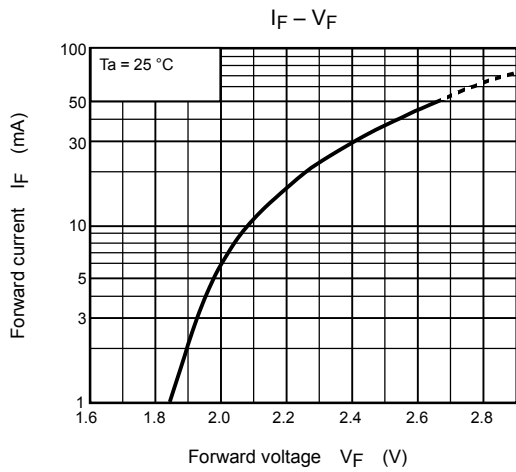
Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V_F	$I_F = 20 \text{ mA}$	—	2.27	2.8	V
Reverse current	I_R	$V_R = 4 \text{ V}$	—	—	50	μA
Luminous intensity	I_V	$I_F = 20 \text{ mA}$ (Note)	27.2	90	—	mcd
Peak emission wavelength	λ_p	$I_F = 20 \text{ mA}$	—	562	—	nm
Spectral line 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 $\pm 15\%$. L: 32~64mcd、M: 56~112mcd、N: 100~200mcd

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 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.



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