

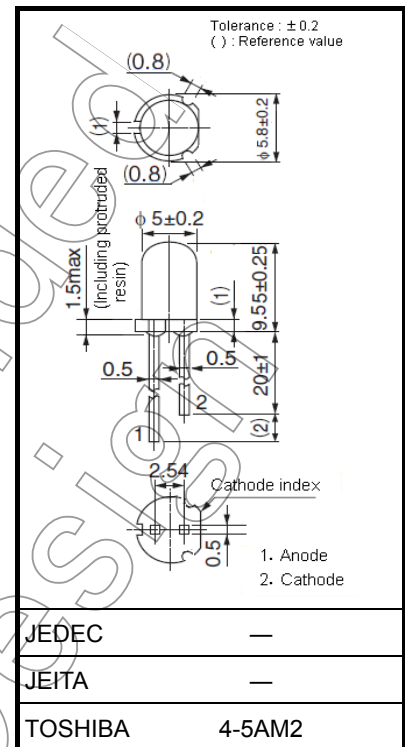
TOSHIBA LED Lamp InGaAlP Green Light Emission

TLGE19CP(F)

Unit: mm

○ Panel Circuit Indicator

- ϕ 5 mm package
- InGaAlP technology
- Colored, transparent lens
- Color: Green
- Applications: Various types of information panels, indicators for amusement equipment and panel backlighting illumination sources.
- Stopper lead type is also available. TLGE19C(F)



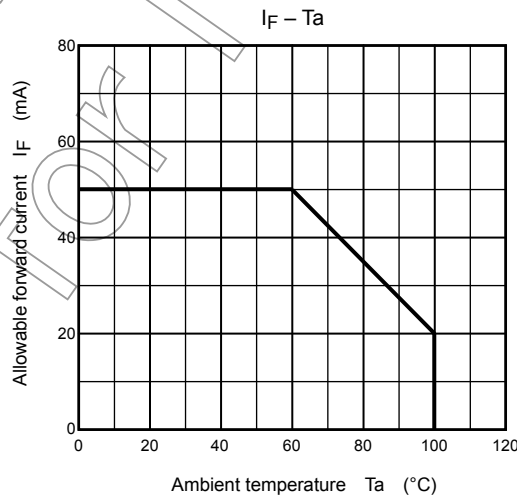
Absolute Maximum Ratings (Ta = 25°C)

CHARACTERISTICS	SYMBOL	RATING	UNIT
FORWARD CURRENT	I_F	50	mA
REVERSE VOLTAGE	V_R	4	V
POWER DISSIPATION	P_D	120	mW
OPERATING TEMPERATURE	T_{opr}	-40 to 100	°C
STORAGE TEMPERATURE	T_{stg}	-40 to 120	°C

Weight: 0.31g(typ.)

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Note1: Forward current derating



Electrical and Optical Characteristics (Ta = 25°C)

CHARACTERISTICS	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
FORWARD VOLTAGE	V_F	$I_F=20\text{mA}$	1.8	2.0	2.4	V
REVERSE CURRENT	I_R	$V_R=4\text{V}$	—	—	50	μA
LUMINOUS INTENSITY	I_V	$I_F=20\text{mA}$ (Note2)	476	1100	—	mcd
PEAK WAVELENGTH	λ_p	$I_F=20\text{mA}$	—	574	—	nm
SPECTRAL LINE HALF WIDTH	$\Delta \lambda$	$I_F=20\text{mA}$	—	17	—	nm
DOMINANT WAVELENGTH	λ_d	$I_F=20\text{mA}$ (Note2)	565	571	576	nm

(Note2):Lamps are classified into the following ranks according to their luminous intensity and dominant wavelength. Each packing box includes single luminous Intensity class and single dominant wavelength class.

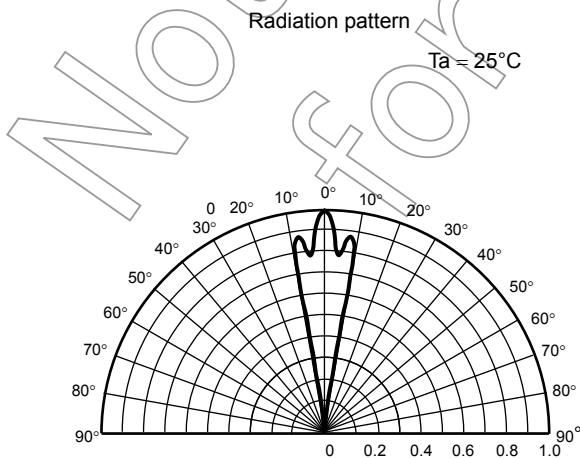
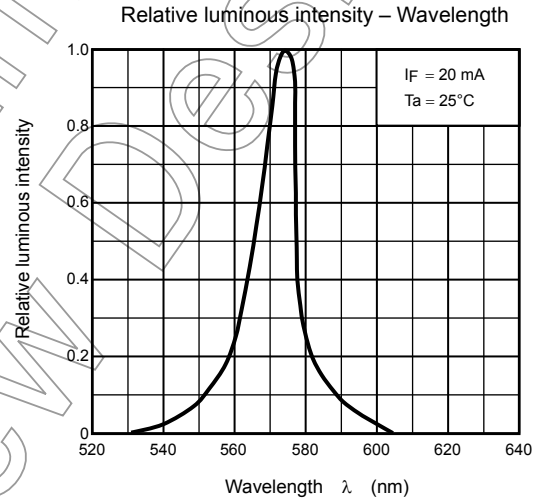
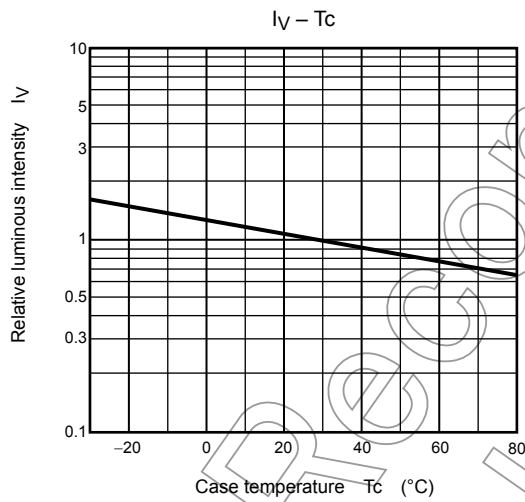
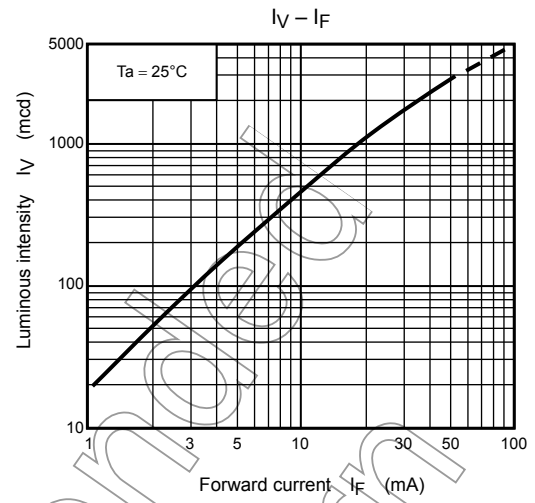
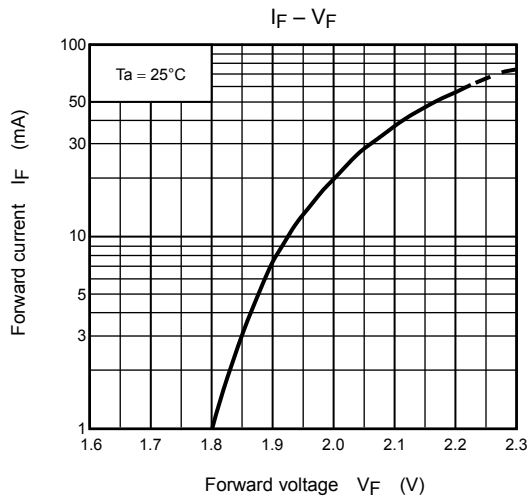
I_V R: 476 - 1290 mcd, S: 850—2300mcd, T: 1530mcd—
 λ_d 1: 565—573nm, 2: 569—576nm

Precautions

Please be careful of the followings

- Soldering temperature: 260°C max Soldering time: 3 s max
 (Soldering portion of lead: up to 1.6 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 1.6 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

Not Recommended for New Design



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