

TOSHIBA InGaAlP LED

TLGE18CP(F)

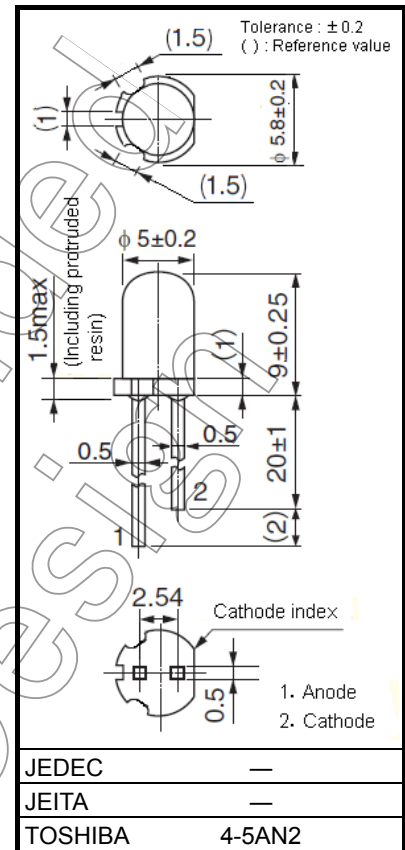
Unit: mm

○ Panel Circuit Indicator

- ϕ 5 mm package
 - InGaAlP technology
 - Emitted color: green
 - High intensity light emission
 - Excellent low current light output
 - Colored, Transparent lens
 - Applications: Various types of information panels, backlightings, etc.
 - Stopper lead type is also available.
- TLGE18C(F)

Lineup

Product Name	Color	Material
TLGE18CP(F)	Green	InGaAlP



Weight: 0.31 g (typ.)

Not Recommended for New Design

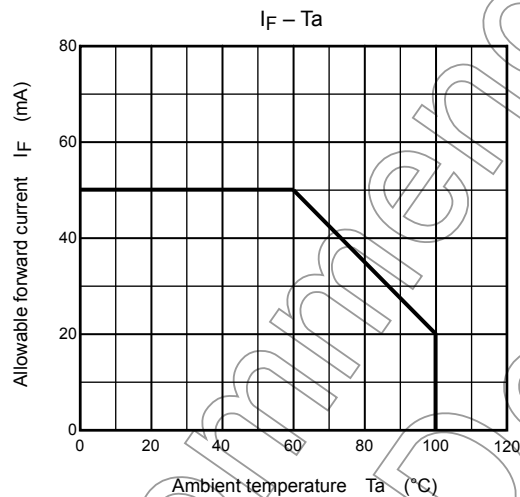
Absolute Maximum Ratings (Ta = 25°C)

Product Name	Forward Current I _F (mA) (Note 1)	Reverse Voltage V _R (V)	Power Dissipation P _D (mW)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
TLGE18CP(F)	50	4	120	-40 to 100	-40 to 120

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).

Note 1: Forward current derating



Electrical and Optical Characteristics (Ta = 25°C)

Product Name	Emission Wavelength (Note 2)					Luminous Intensity I _v (Note 2)			Forward Voltage V _F			Reverse Current I _R		
	λ _d			λ _p	Δλ	I _F	Min	Typ	I _F	Typ	Max	I _F	Max	V _R
	Min	Typ	Max	Typ	Typ									
TLGE18CP(F)	565	571	576	574	20	20	153	500	20	2.0	2.4	20	50	4
Unit	nm					mA	mcd			V		mA	μA	V

Note 2: Lamps are classified into the following ranks according to their luminous intensity. Each packing box includes single Luminous Intensity class.

I_v rank - P: 153-414 mcd, Q: 272-736 mcd, R: 476 mcd -

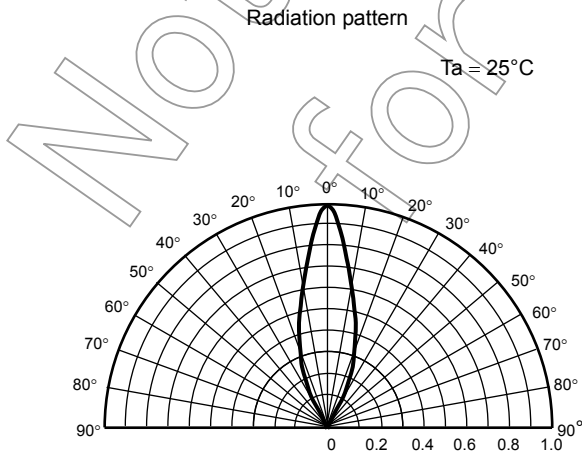
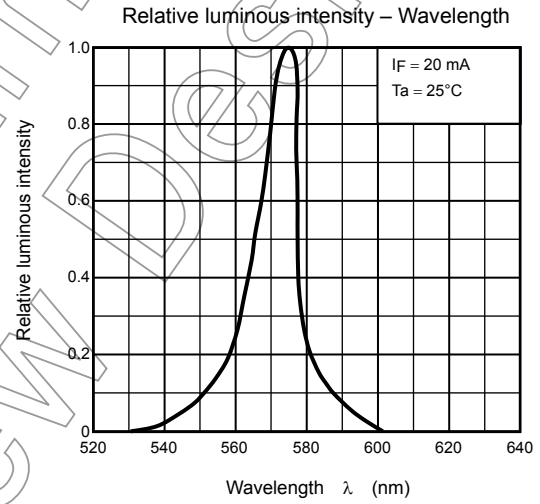
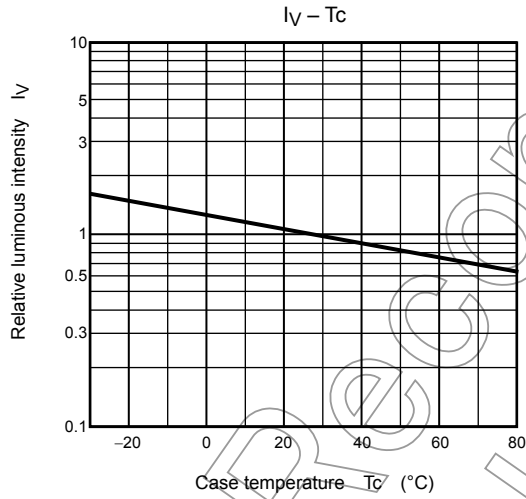
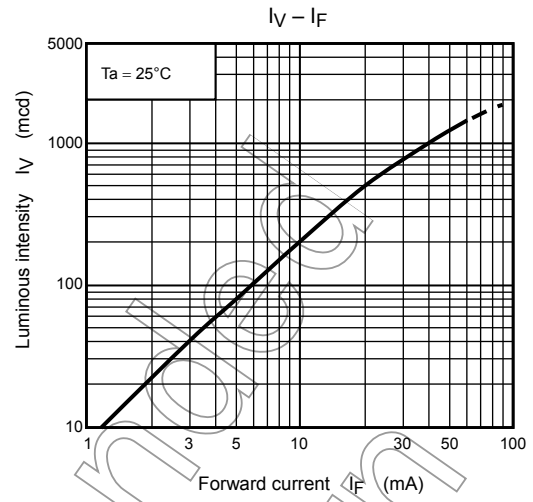
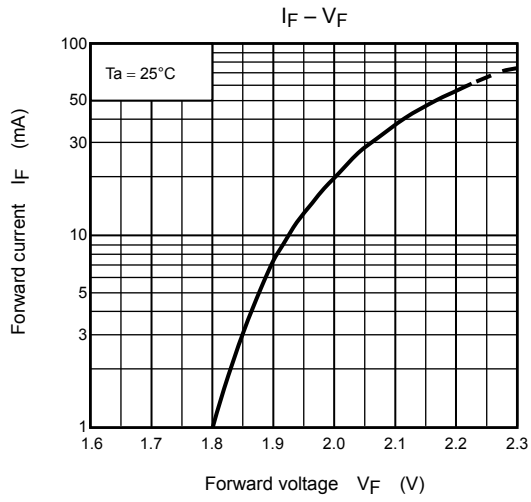
λ_d 1: 565-573 nm, 2: 569-576 nm

Precautions

Please be careful of the following:

- 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 photo detector is located near the LED lamp, please ensure that it will not be affected by this IR light

TLGE18CP(F)



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