

TOSHIBA InGaA/P LED

TLGU23TP(F), TLPGU23TP(F)

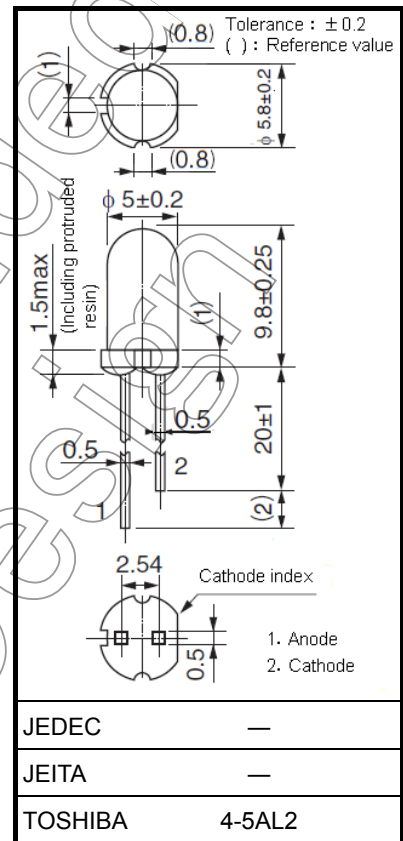
○ Panel Circuit Indicator

- ϕ 5mm package
- InGaA/P technology
- Transparent lens.
- Colors: Green, Pure green
- Applications: Various types of information panels, indicators, etc.
- Stopper lead type is also available.
TLGU23T(F), TLPGU23T(F)

Lineup

Product Name	Color	Material
TLGU23TP(F)	Green	InGaA/P
TLPGU23TP(F)	Pure green	

Unit: mm



Weight: 0.31 g (typ.)

Not Recommended for New Design

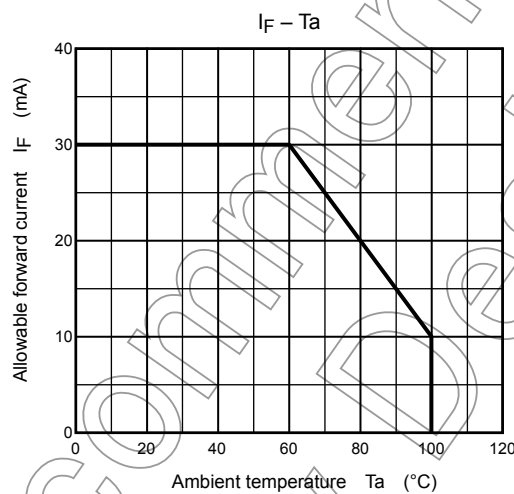
Absolute Maximum Ratings (Ta = 25°C)

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)
TLGU23TP(F)	30	4	72	-40 to 100	-40 to 120
TLPGU23TP(F)	30	4	72		

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)

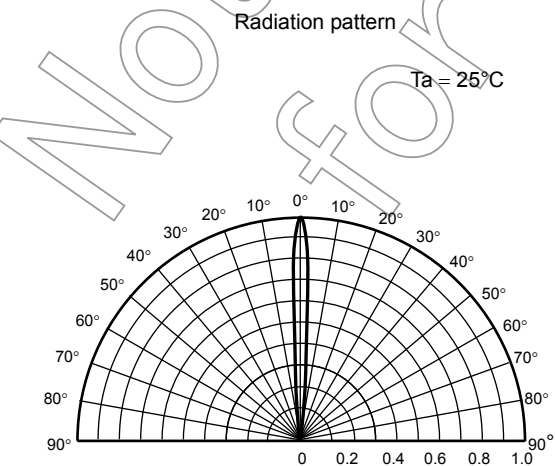
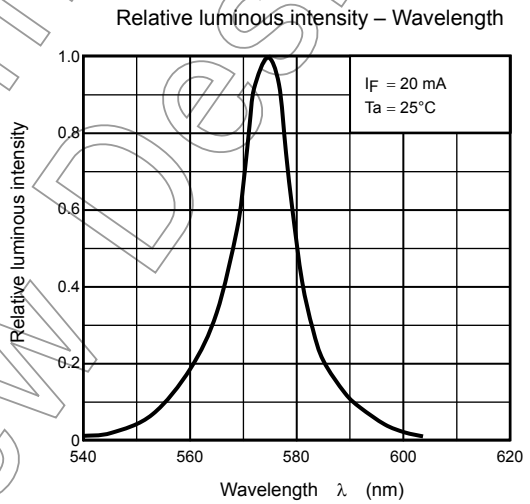
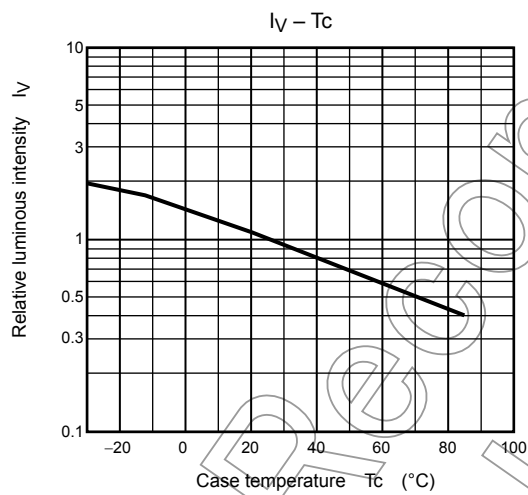
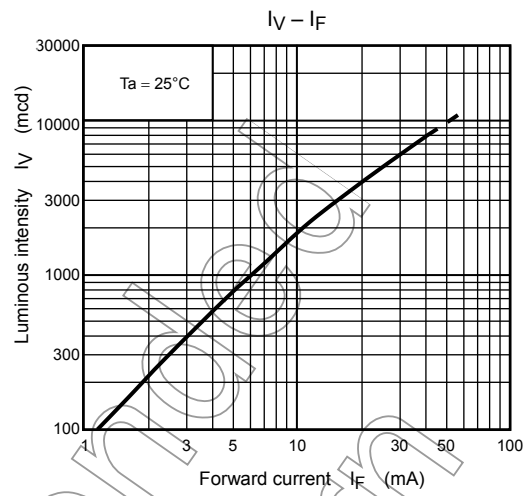
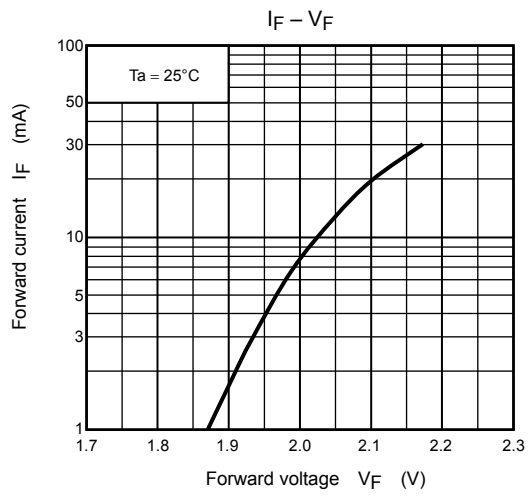
Product Name	Typ. Emission Wavelength			Luminous Intensity I _v			Forward Voltage V _F			Reverse Current I _R		
	λ _d	λ _p	Δλ	I _F	Min	Typ.	I _F	Typ.	Max	I _F	Max	V _R
TLGU23TP(F)	571	574	17	20	1530	4000	20	2.1	2.4	20	50	4
TLPGU23TP(F)	558	562	14	20	476	1600	20	2.1	2.4	20	50	4
Unit	nm			mA	mcd		mA	V		mA	μA	V

Precautions

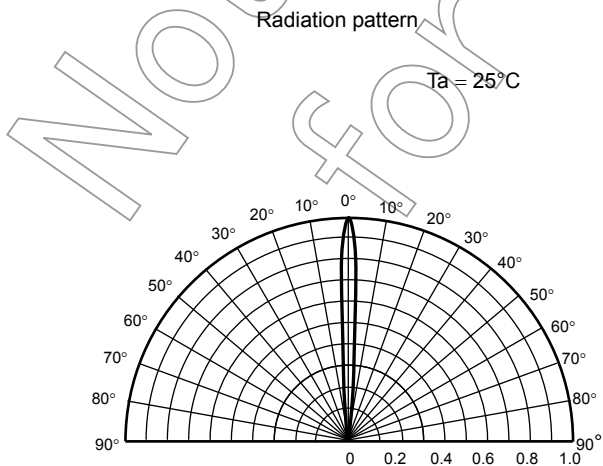
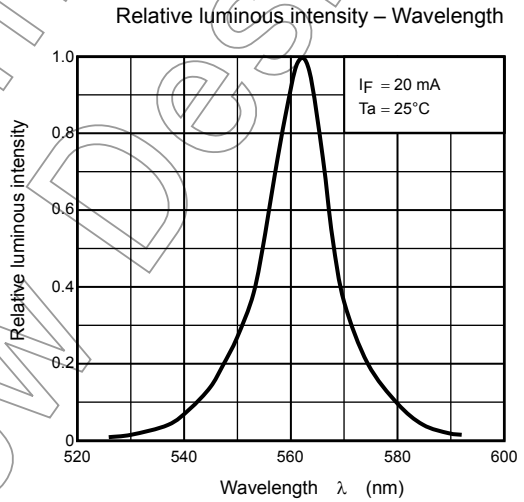
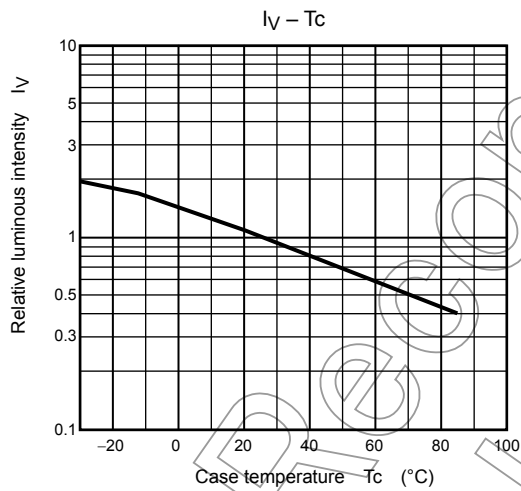
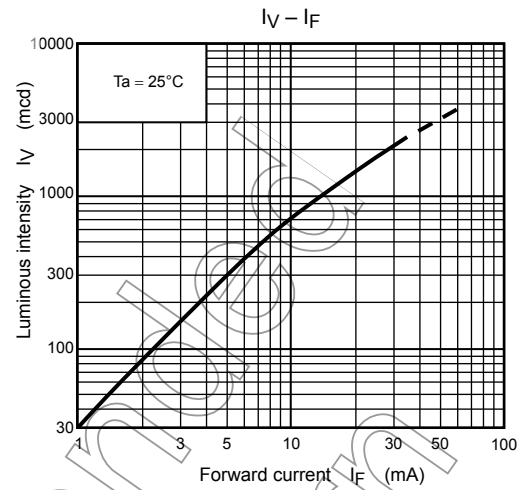
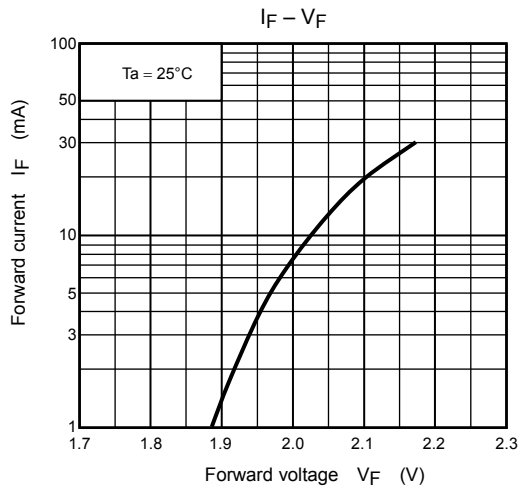
Please be careful of the following:

- 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.

TLGU23TP(F)



TLPGU23TP(F)



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