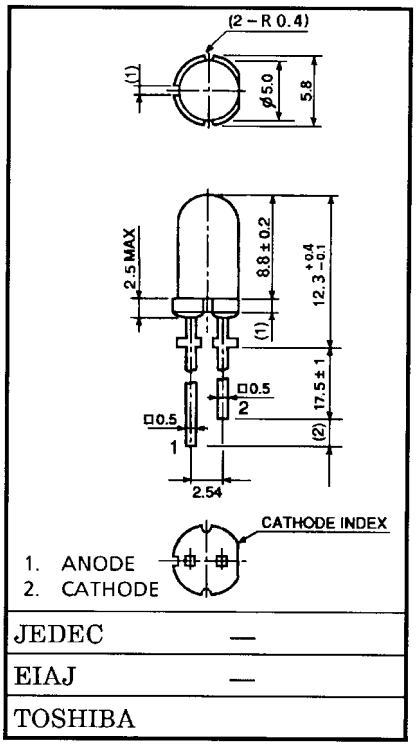
TOSHIBA InGaAℓP LED

TLGE23T, TLPGE23T

Panel Circuit Indicator

Unit in mm



Weight : 0.31 g

- 5 mm package
- InGaAℓP technology
- All plastic mold type
- Transparent lens
- Excellent low current light output
- Applications:
  outdoor message signboards, safety equipment, automotive use, etc.

Line-Up

Product Name	Color	Material
TLGE23T	Green	InGaAℓP
TLPGE23T	Pure green	

Maximum Ratings (Ta = 25°C)

Product Name	Forward Current I_F (mA)	Reverse Voltage V_R (V)	Power Dissipation P_D (mW)	Operating Temperature T_{opr} (°C)	Storage Temperature T_{stg} (°C)
TLGE23T	50	4	120	−40~100	−40~120
TLPGE23T	50	4	120		

961001EAC1

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	$\Delta\lambda$	I_F	Min	Typ.	I_F	Typ.	Max	I_F	Max	V_R
TLGE23T	571	(574)	17	20	2720	7000	20	2.0	2.4	20	50	4
TLPGE23T	558	(562)	14	20	850	3000	20	2.1	2.4	20	50	4
Unit	nm			mA	mcd		mA	V		mA	μA	V

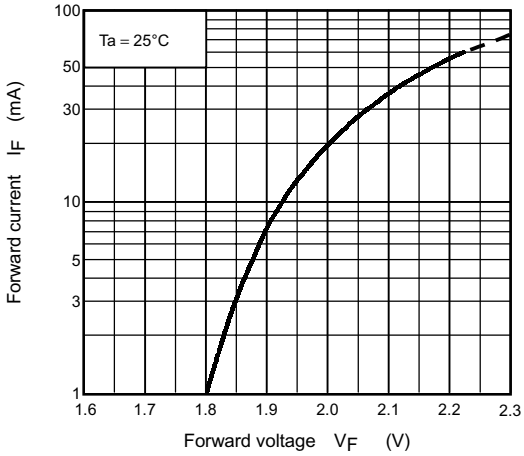
Precautions

Please be careful of the following:

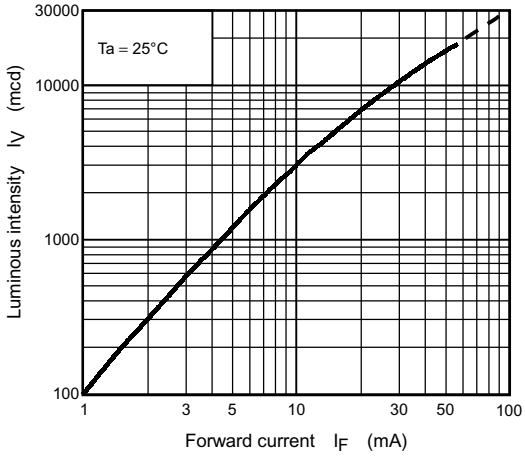
- Soldering temperature: 260°C max, soldering time: 3 s max
  (soldering portion of lead: below the lead stopper)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible 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.

TLGE23T

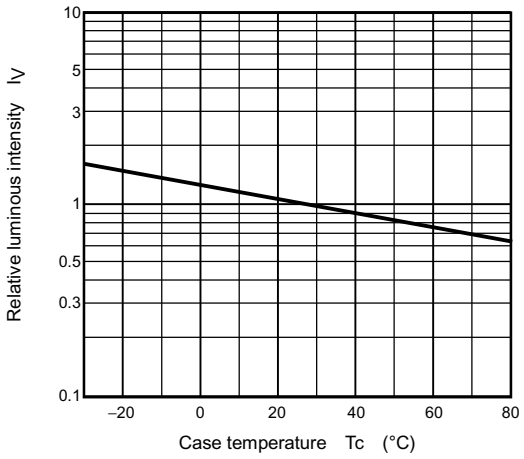
$I_F - V_F$



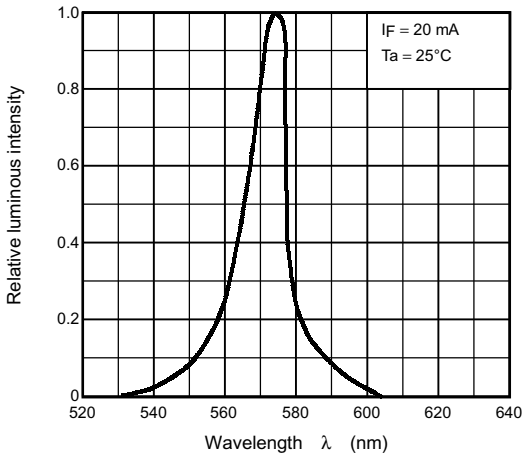
$I_V - I_F$



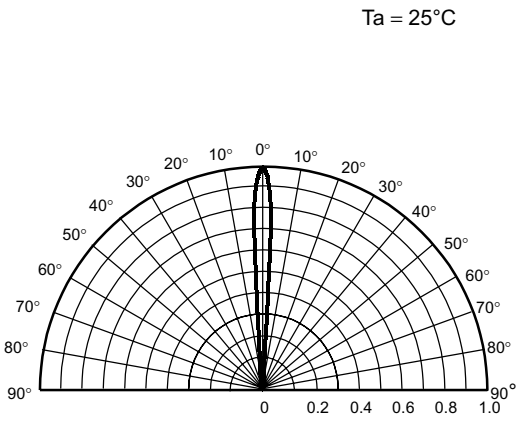
$I_V - Tc$



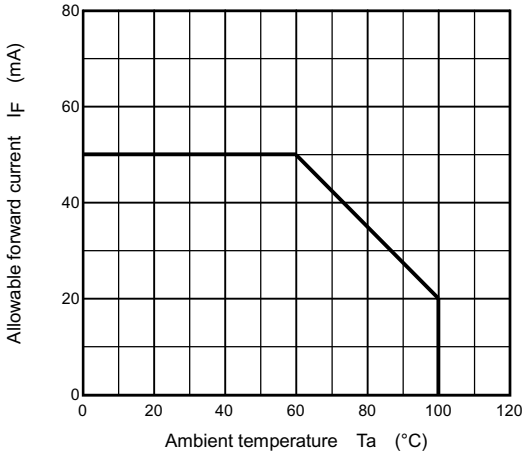
Relative luminous intensity – Wavelength



Radiation pattern

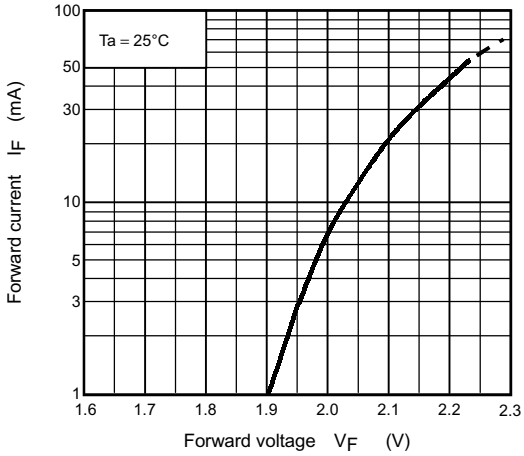


$I_F - Ta$

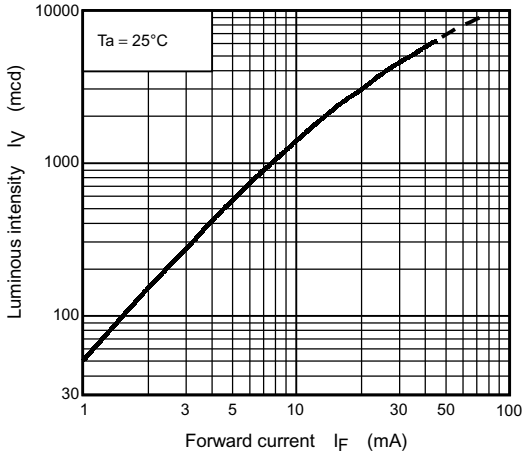


TLPGE23T

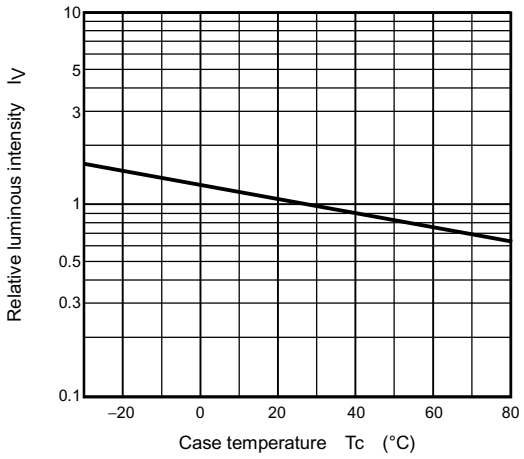
$I_F - V_F$



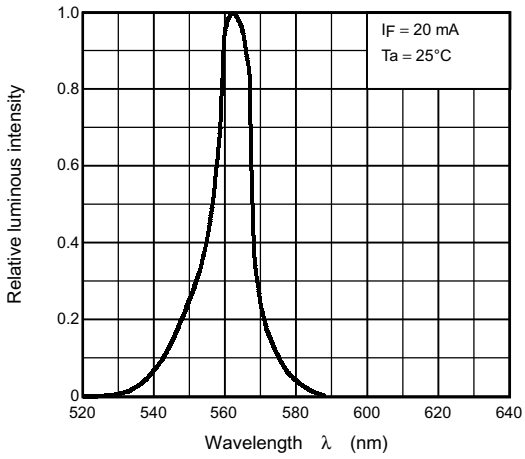
$I_V - I_F$



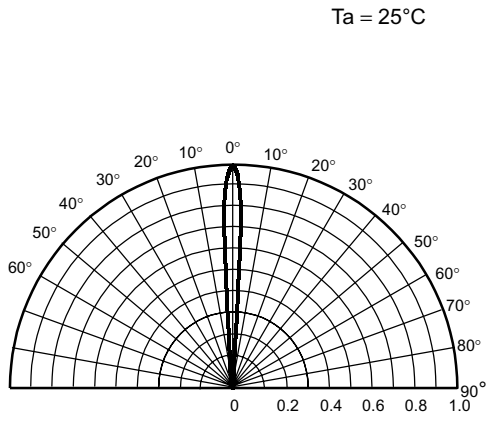
$I_V - Tc$



Relative luminous intensity – Wavelength



Radiation pattern



$I_F - Ta$