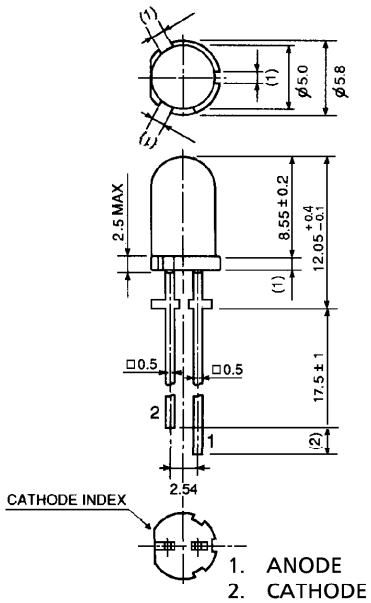
TOSHIBA InGaAℓP LED

TLGE19T, TLPGE19T

PANEL CIRCUIT INDICATOR

Unit in mm

- 5 mm Package
- InGaAℓP Technology
- All Plastic Mold Type
- Transparent Lens
- High Intensity Light Emission
- Excellent Low Current Light Output
- Applications: Outdoor Message Signboards, Safety equipment, Automotive use, etc.



JEDEC	—
EIAJ	—
TOSHIBA	

Weight : 0.31 g

LINE-UP

PRODUCT NAME	COLOR	MATERIAL
TLGE19T	Green	InGaAℓP
TLPGE19T	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)
TLGE19T	50	4	120	−40~100	−40~120
TLPGE19T	50	4	120	−40~100	−40~120

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
TLGE19T	571	(574)	17	20	476	1300	20	2.0	2.4	20	50	4
TLPGE19T	558	(562)	14	20	153	500	20	2.1	2.4	20	50	4
Unit	nm			mA	mcd		mA	V		mA	μA	V

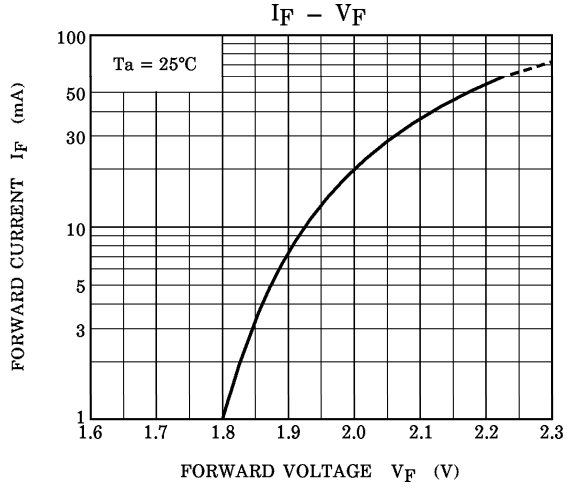
PRECAUTIONS

Please be careful of the following:

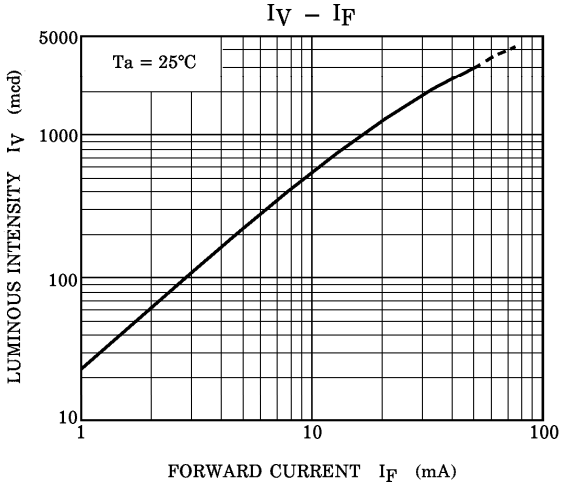
- Soldering temperature: 260°C max, soldering time: 3 s max
  (soldering portion of lead: below the lead stopper)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible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

TLGE19T

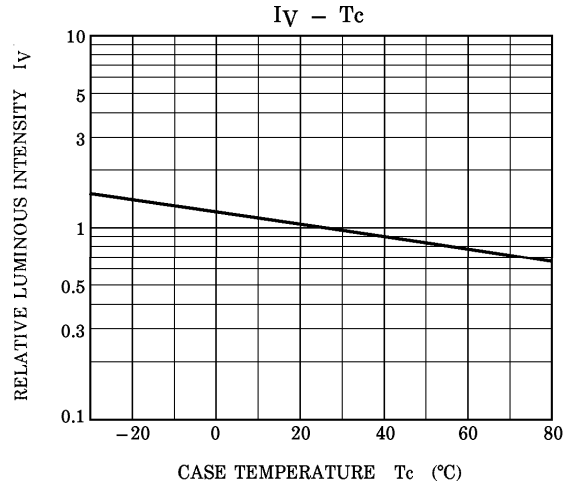
$I_F - V_F$



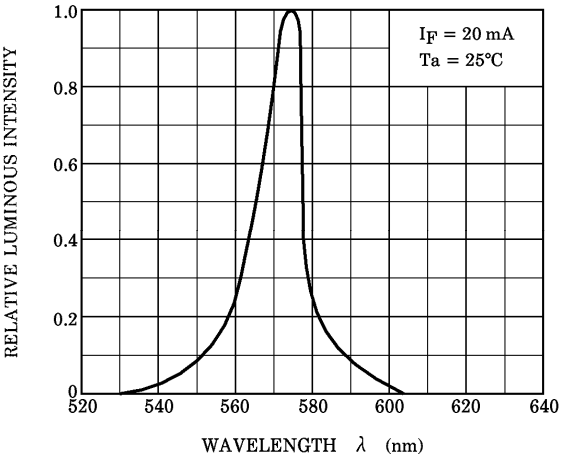
$I_V - I_F$



$I_V - Tc$

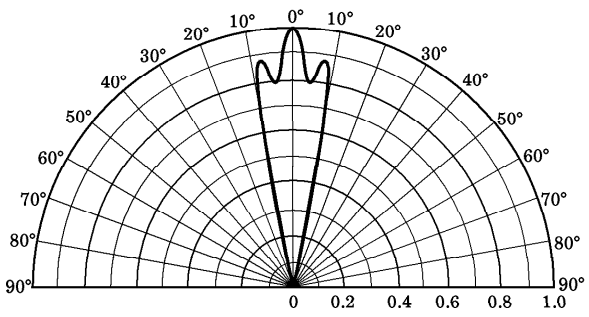


RELATIVE LUMINOUS INTENSITY − WAVELENGTH

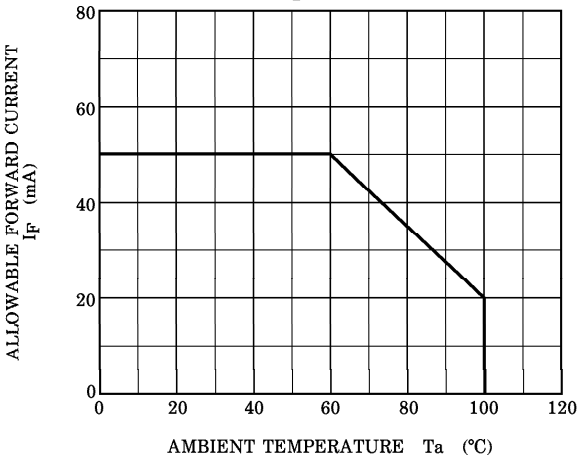


RADIATION PATTERN

Ta = 25°C

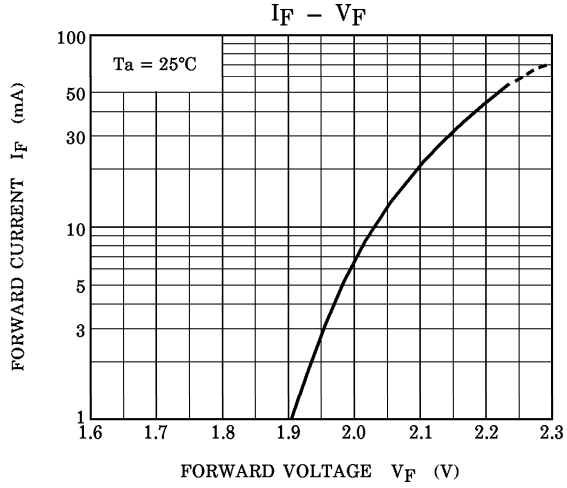


$I_F - Ta$

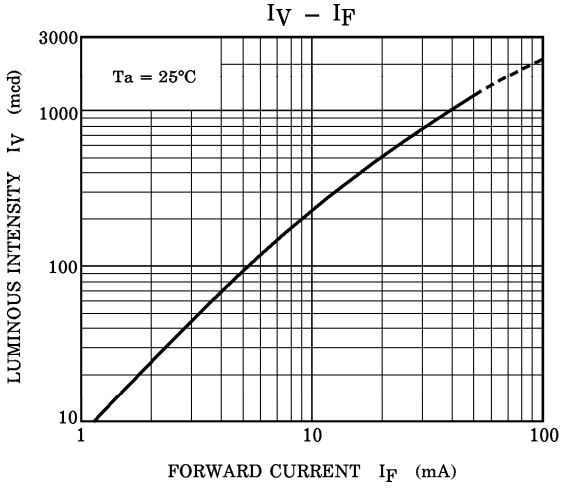


TLPGE19T

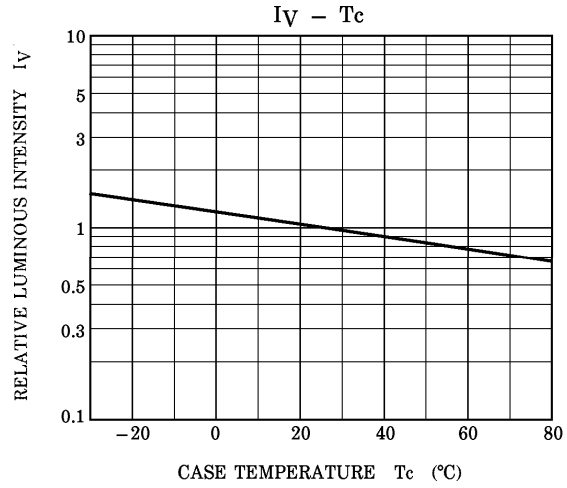
$I_F - V_F$



$I_V - I_F$



$I_V - Tc$



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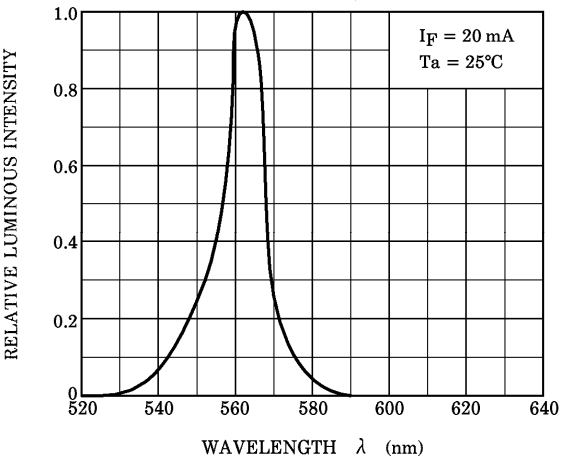

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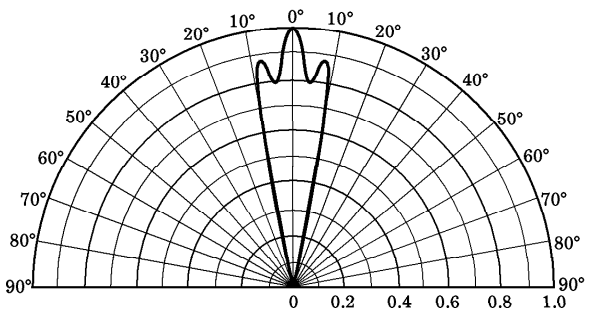

$I_F - Ta$