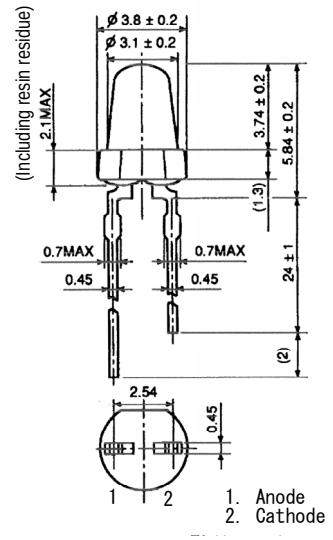
TOSHIBA InGaAℓP LED

TLFGE50C(F)

Unit: mm

○ Panel Circuit Indicator

- Lead(Pb)-free products (lead: Sn-Ag-Cu)
- Φ3.1 mm wide viewing angle
- InGaAℓP
- Emitted color: Fresh Green
- Colored, Transparent lens
- Applications: Various types of information panels, indicators for amusement equipment and panel backlighting illumination sources.



JEDEC	—
EIAJ	—
TOSHIBA	4−3E1A

Weight: 0.14 g

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}	−40~100	°C
STORAGE TEMPERATURE	T_{stg}	−40~120	°C

ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta = 25°C)

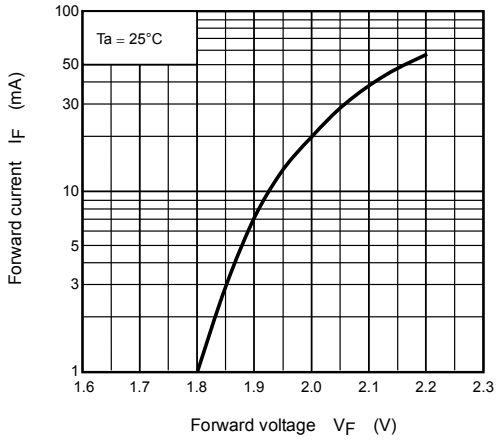
CHARACTERISTICS	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
FORWARD VOLTAGE	V_F	I_F=20mA	—	2.0	2.4	V
REVERSE CURRENT	I_R	V_R=4V	—	—	50	μA
LUMINOUS INTENSITY	I_V	I_F=20mA(Note)	272	1000	—	mcd
PEAK WAVELENGTH	λ_P	I_F=20mA	—	(568)	—	nm
SPECTRAL LINE HALF WIDTH	$\Delta\lambda$	I_F=20mA	—	15	—	nm
DOMINANT WAVELENGTH	λ_d	I_F=20mA	—	565	—	nm

(Note): Lamps are classified into the following ranks according to their luminous intensity. Each packing box includes single Luminous Intensity class.
N:100-200mcd, P:180-360mcd, Q:320-640mcd.

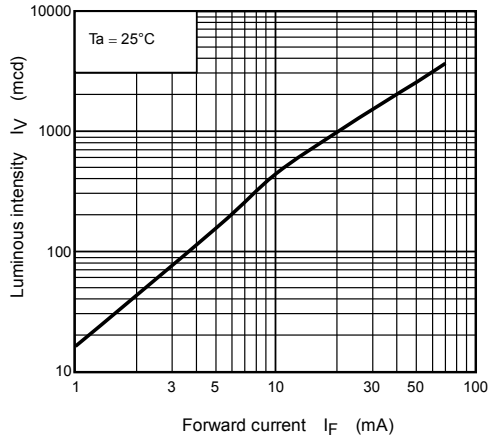
Precautions

- These LED lamps made of InGaAℓP will also emit some IR light. If a photodetector is located near an LED lamp, please ensure that it will not be affected by this IR light.
- Manual soldering should be performed within 3 s at a maximum temperature of 300°C or 5 s at a maximum temperature of 260°C.
- When forming the leads, bend each lead without applying any forming stress. Soldering must be performed after the leads have been formed.

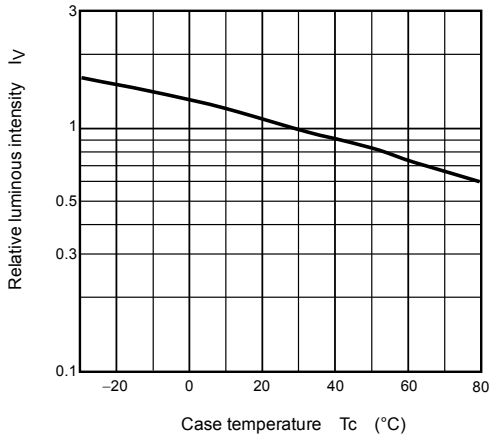
$I_F - V_F$



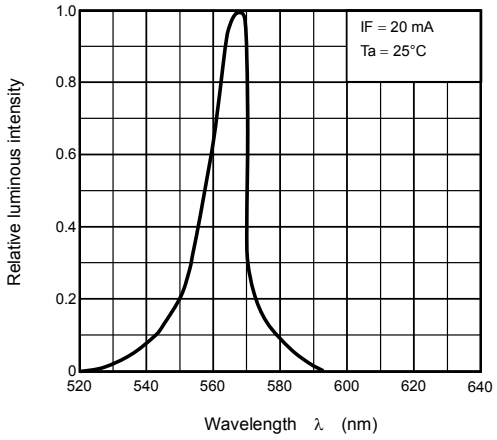
$I_V - I_F$



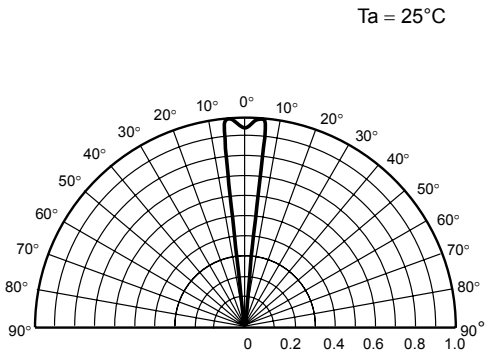
$I_V - Tc$



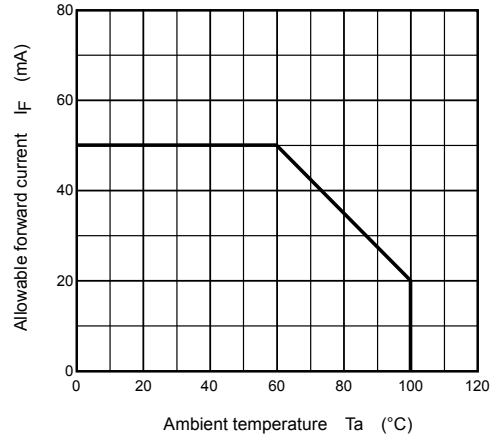
Relative luminous intensity – Wavelength



Radiation pattern



$I_F - Ta$



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