

TOSHIBA InGaAlP LED

TLFGE50C(F)

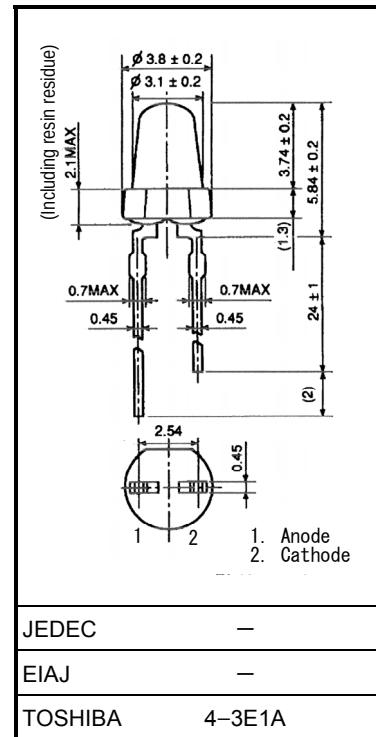
Unit: mm

○ Panel Circuit Indicator

- Lead(Pb)-free products (lead: Sn-Ag-Cu)
- $\Phi 3.1$ 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.

Maximum Ratings ($T_a = 25^\circ\text{C}$)

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	$^\circ\text{C}$
STORAGE TEMPERATURE	T_{stg}	-40~120	$^\circ\text{C}$

ELECTRICAL AND OPTICAL CHARACTERISTICS
($T_a = 25^\circ\text{C}$)

Weight: 0.14 g

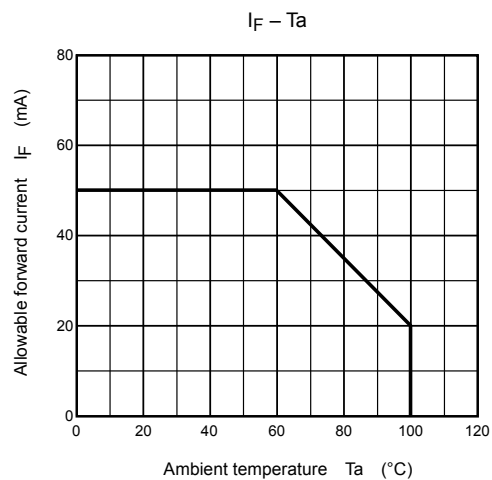
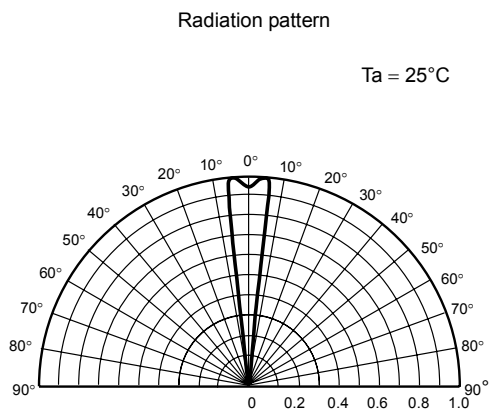
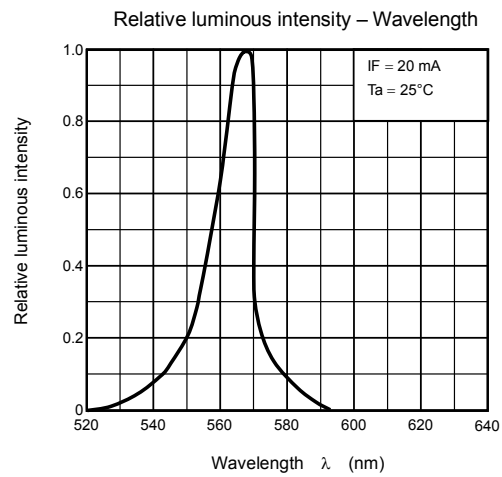
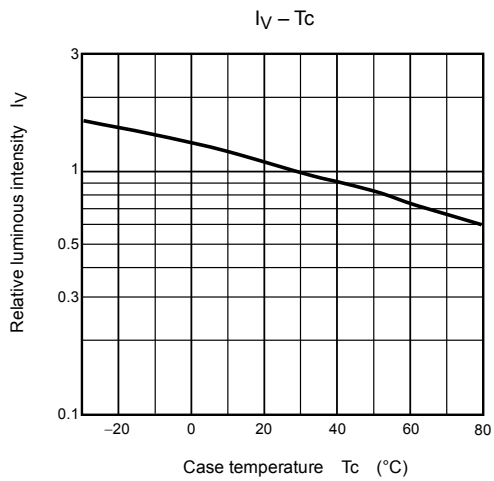
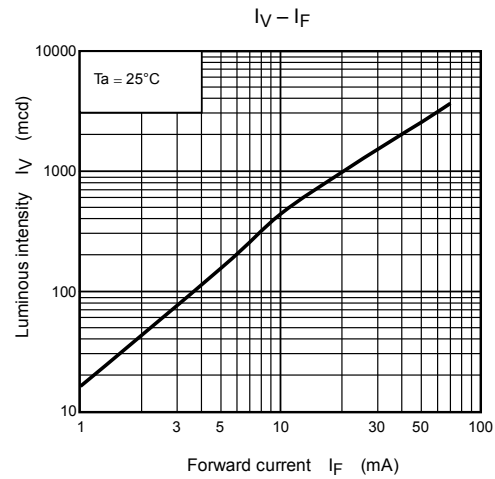
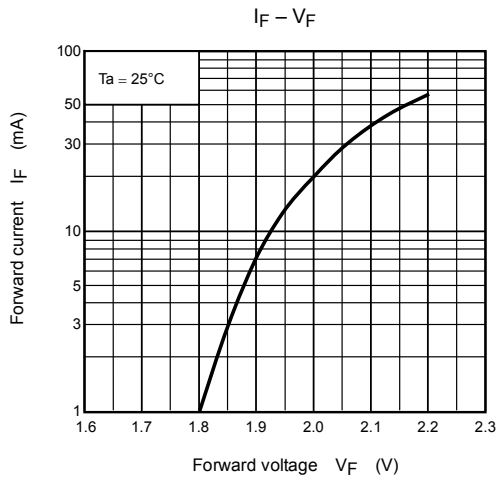
CHARACTERISTICS	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
FORWARD VOLTAGE	V_F	$I_F=20\text{mA}$	—	2.0	2.4	V
REVERSE CURRENT	I_R	$V_R=4\text{V}$	—	—	50	μA
LUMINOUS INTENSITY	I_v	$I_F=20\text{mA}(\text{Note})$	272	1000	—	mcd
PEAK WAVELENGTH	λ_p	$I_F=20\text{mA}$	—	(568)	—	nm
SPECTRAL LINE HALF WIDTH	$\Delta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



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