TOSHIBA LED Lamp

TLOE17CP(F),TLYE17CP(F)

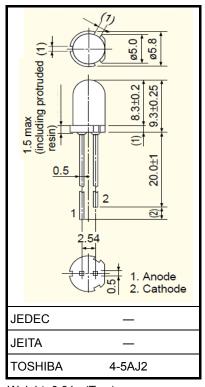
Panel Circuit Indicator

Unit: mm

- Lead(Pb)-free products (lead: Sn-Ag-Cu)
- 5mm package
- InGaAlP technology
- All plastic mold type
- Colored, Transparent lens
- High intensity light emission
- Excellent low current light output
- Applications: outdoor message signboards, safety equipment, automotive use, etc

Lineup

Product Name	Color	Material			
TLOE17CP(F)	Orange	InGaAℓP			
TLYE17CP(F)	Yellow	IIIOAA!			



Weight: 0.31 g(Typ.)

Absolute 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)	
TLOE17CP(F)	50	4	120	-40~100	−40 ~ 120	
TLYE17CP(F)	50	4	120	-4 0 *100		

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).



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}	λР	Δλ	IF	Min	Тур.	lF	Тур.	Max	lF	Max	V_{R}
TLOE17CP(F)	605	(612)	20	20	1530	3500	20	2.0	2.4	20	50	4
TLYE17CP(F)	587	(590)	17	20	850	3000	20	2.0	2.4	20	50	4
Unit		nm		mA	m	cd	mA	\	/	mA	μА	V

Precautions

Please be careful of the following:

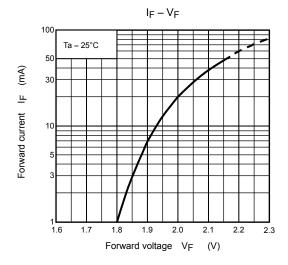
- \bullet Soldering temperature: 260°C max, soldering time: 3 s max (soldering portion of lead: up to 1.6 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 1.6 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.

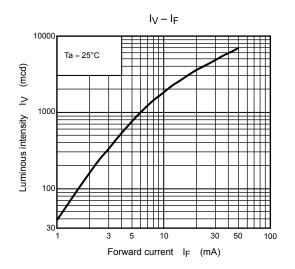
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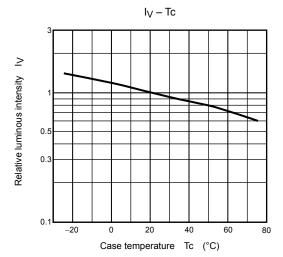
• This visible LED lamp also emits some IR light.

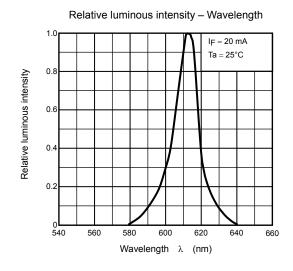
If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.

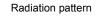
TLOE17CP(F)





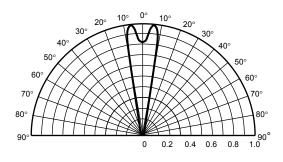


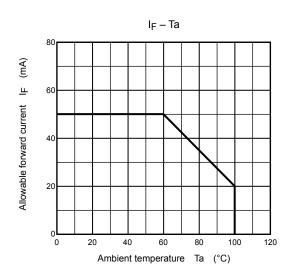




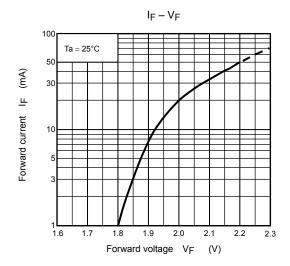
Ta = 25°C

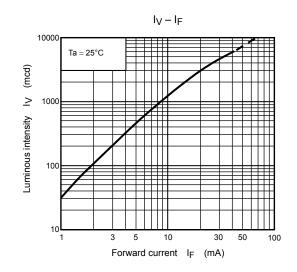
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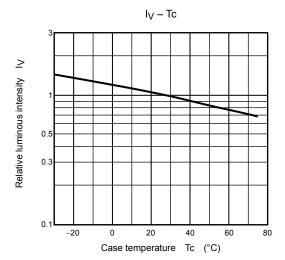


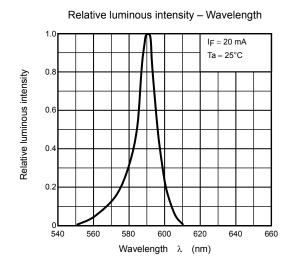


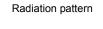
TLYE17CP(F)



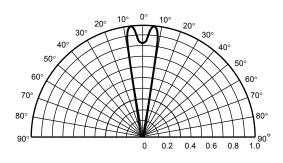


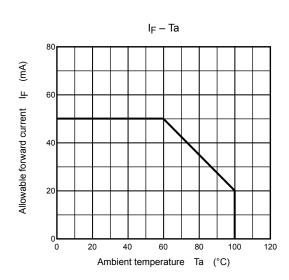












RESTRICTIONS ON PRODUCT USE

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