TOSHIBA LED Lamp

TLRE11TP(F),TLOE11TP(F),TLYE11TP(F),TLGE11TP(F),TLPGE11TP(F)

Panel Circuit Indicator

- 5mm 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

Unit: mm 44.9±0.2 2.54 Cathode index JEDEC JEITA TOSHIBA 4-5T1

Weight: 0.31 g(Typ.)

Lineup

Product Name	Color	Material
TLRE11TP(F)	Red	
TLOE11TP(F)	Orange	4()
TLYE11TP(F)	Yellow	InGaAℓP
TLGE11TP(F)	Green	(())
TLPGE11TP(F)	Pure Green	
	•	

Absolute Maximum Ratings (Ta = 25°C)

Product Name	Forward Current	Reverse Voltage V _R (V)	Power Dissipation P _D (mW)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
TLRE11TP(F)	\sim				
TLOE11TP(F)		\sim			
TLYE11TP(F)	50	4	120	−40~100	−40~120
TLGE11TP(F)					
TLPGE11TP(F)					

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)

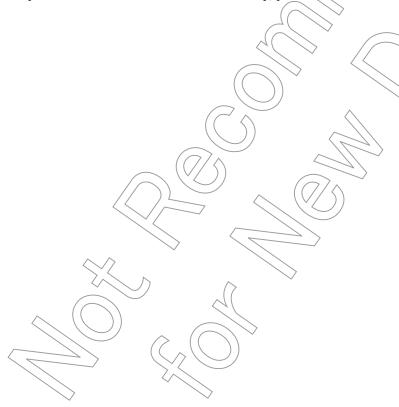
Product Name	Typ. Emission Wavelength		Luminous Intensity I _V		Forward Voltage V _F		Reverse Current I _R					
	λ_{d}	λР	Δλ	IF	Min	Тур.	lF	Тур.	Max	lF	Max	V_{R}
TLRE11TP(F)	630	(644)	20	20	8.5	20	20	1.9	2.4	20	50	4
TLOE11TP(F)	605	(612)	20	20	27.2	65	20	2.0	2.4	20	50	4
TLYE11TP(F)	587	(590)	17	20	15.3	45	20	2.0	2,4	20	50	4
TLGE11TP(F)	571	(574)	17	20	8.5	20	20	2.0	2.4)20	50	4
TLPGE11TP(F)	558	(562)	14	20	2.72	8	20	21	72.4	20	50	4
Unit		nm		mA	m	cd	mA	/ (4		mA	μА	V

Precautions

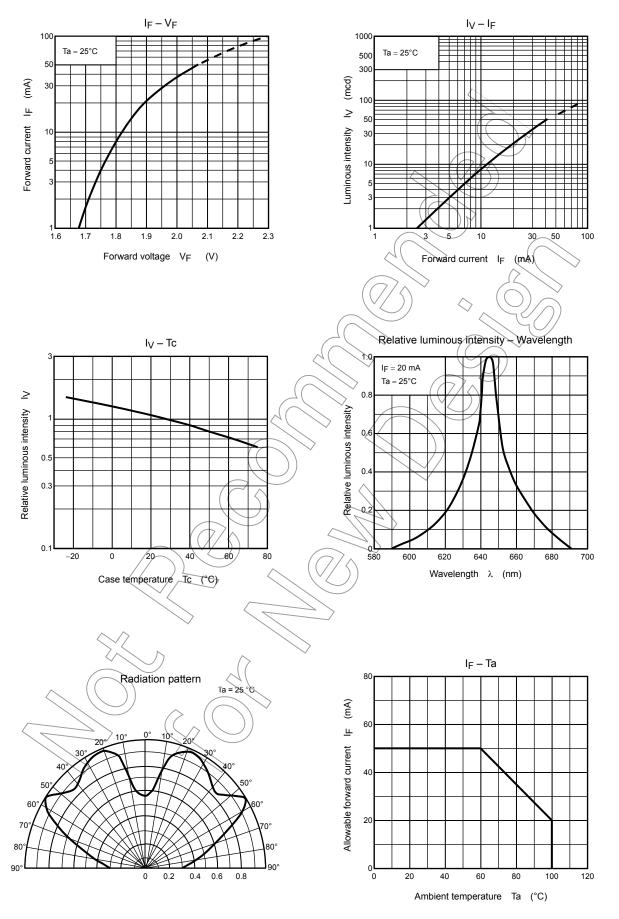
Please be careful of the following:

- 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.
- This visible LED lamp also emits some IR light.

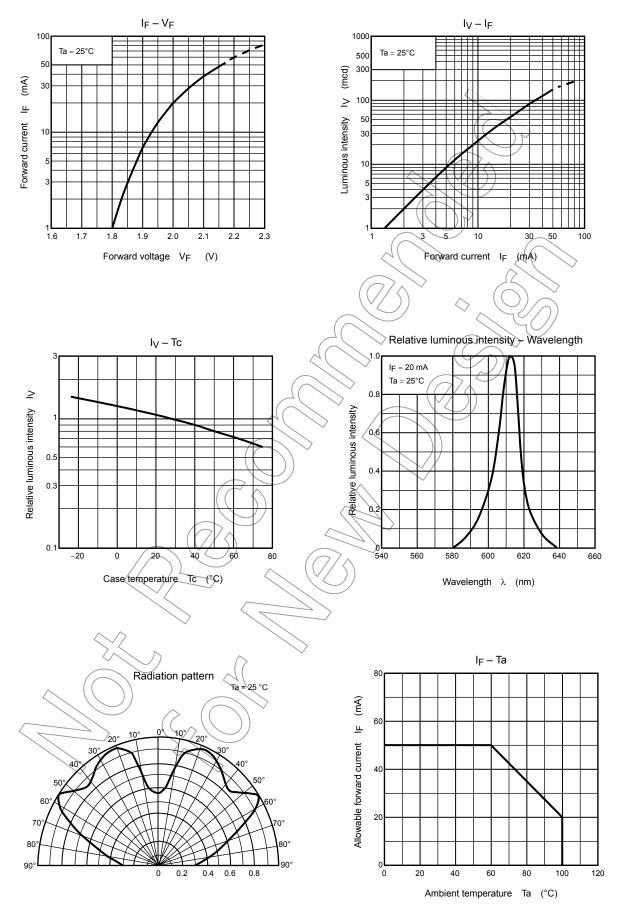
 If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.



TLRE11TP(F)

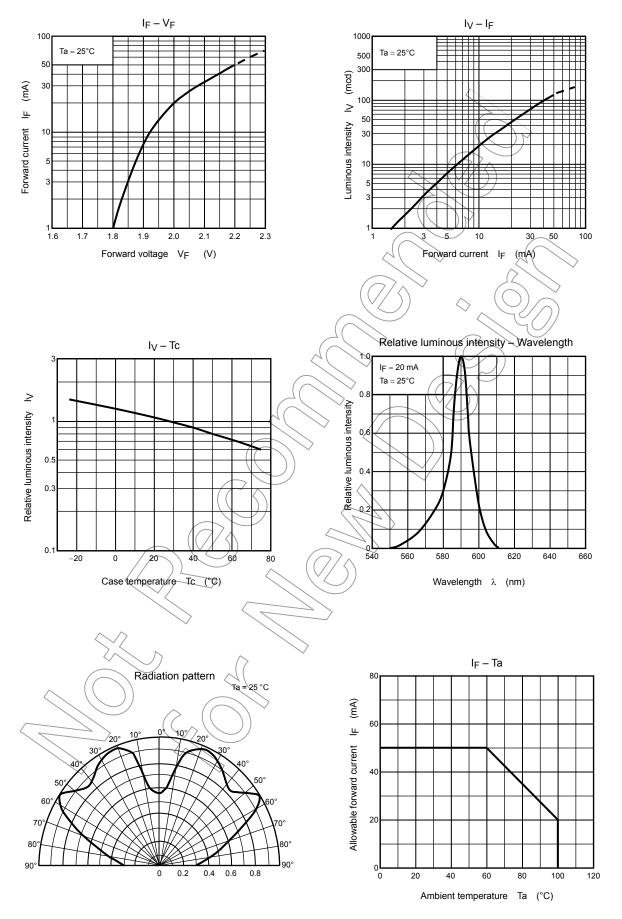


TLOE11TP(F)

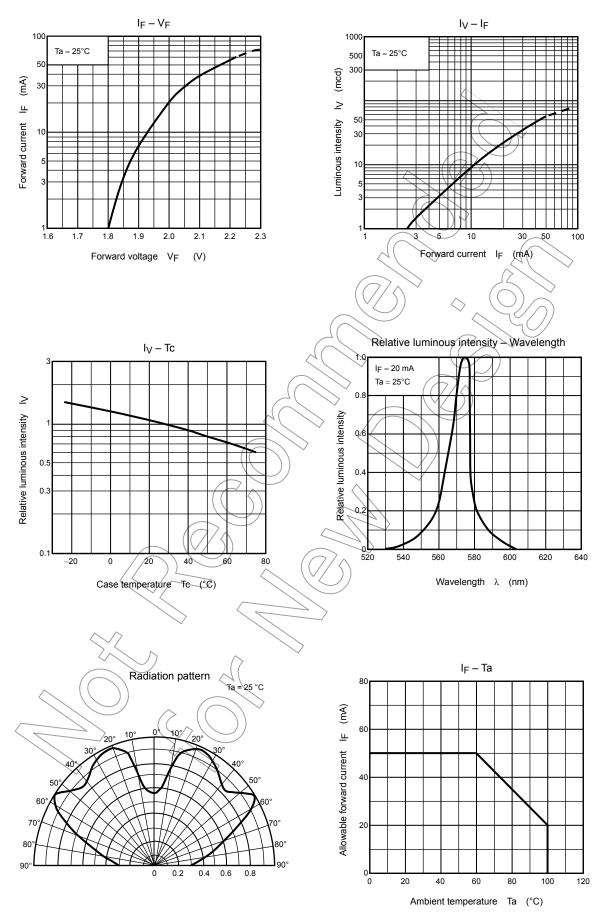


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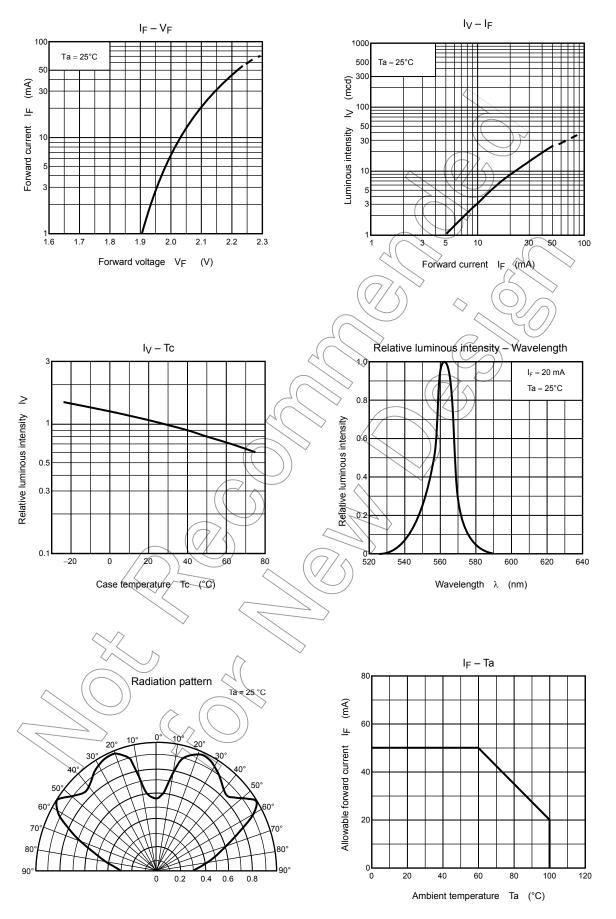
TLYE11TP(F)



TLGE11TP(F)



TLPGE11TP(F)



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