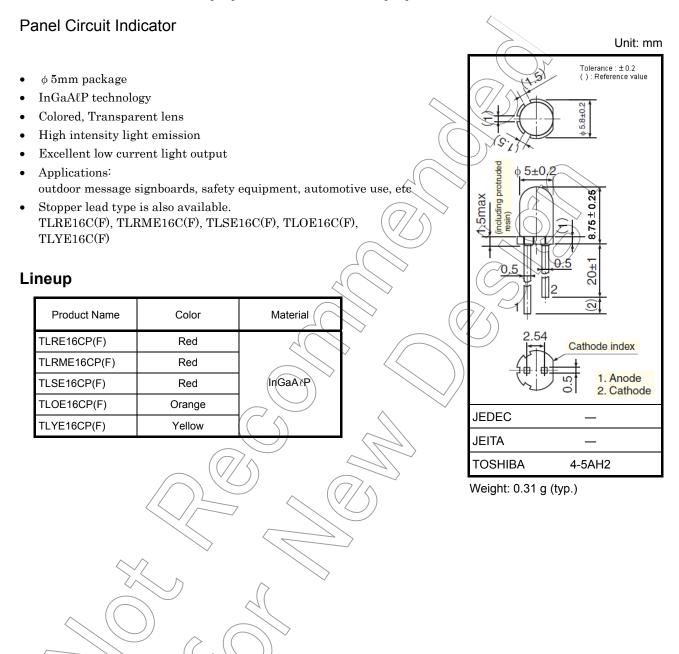
TOSHIBA LED Lamp

TLRE16CP(F),TLRME16CP(F),TLSE16CP(F),TLOE16CP(F),TLYE16CP(F)





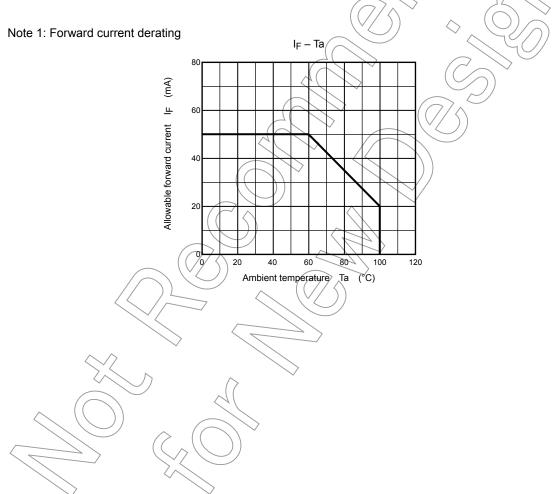
Absolute Maximum Ratings (Ta = 25°C)

Product Name	Forward Current I _F (mA) (Note 1)	Reverse Voltage V _R (V)	Power Dissipation P _D (mW)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
TLRE16CP(F)	50	4	120		
TLRME16CP(F)	50	4	120	^	
TLSE16CP(F)	50	4	120	-40 to 100	-40 to 120
TLOE16CP(F)	50	4	120		>
TLYE16CP(F)	50	4	120		~

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





Electrical and Optical Characteristics (Ta = 25°C)

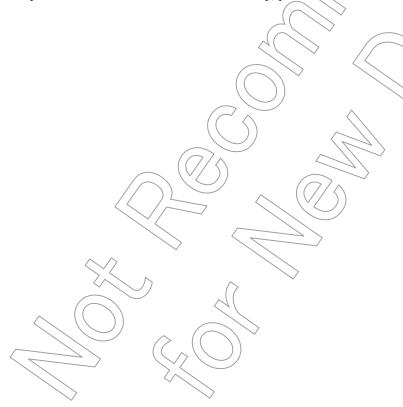
Product Name	Typ. Emission Wavelength			Luminous Intensity I _V		Forward Voltage V _F		Reverse Current I _R				
	λ_{d}	λР	Δλ	IF	Min	Тур.	lF	Тур.	Max	lF	Max	V_{R}
TLRE16CP(F)	630	644	20	20	153	600	20	1.9	2.4	20	50	4
TLRME16CP(F)	626	636	23	20	272	800	20	1.9	2.4	20	50	4
TLSE16CP(F)	613	623	20	20	476	1000	20	1.9	2.4	20	50	4
TLOE16CP(F)	605	612	20	20	476	1600	20	2.0	2.4)20	50	4
TLYE16CP(F)	587	590	17	20	476	1200	20	2.0	72.4	20	50	4
Unit		nm		mA	m	cd	mA	/ (4	$\mathcal{L}(\mathcal{L}(\mathcal{L}(\mathcal{L}(\mathcal{L}(\mathcal{L}(\mathcal{L}(\mathcal{L}($	mA	μА	V

Precautions

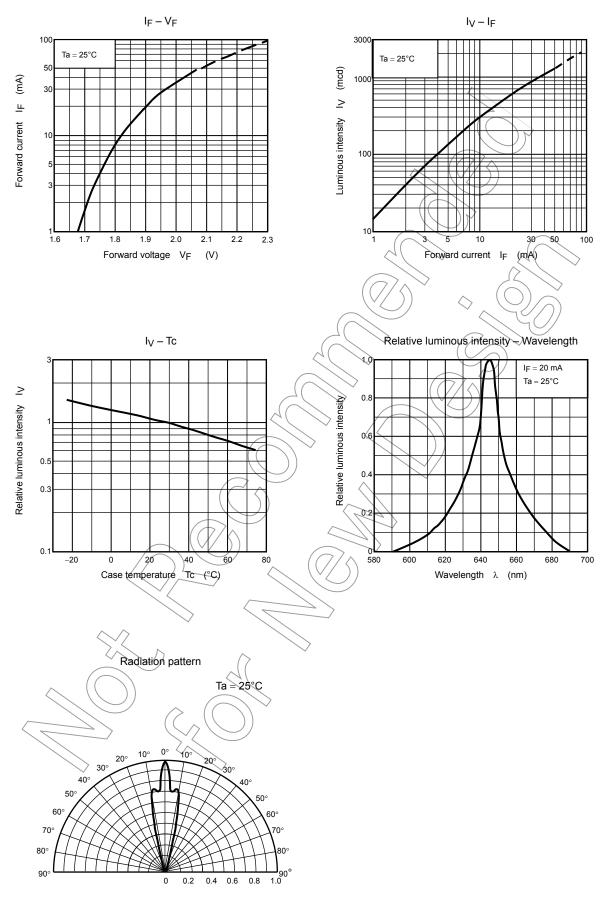
Please be careful of the following:

- 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.

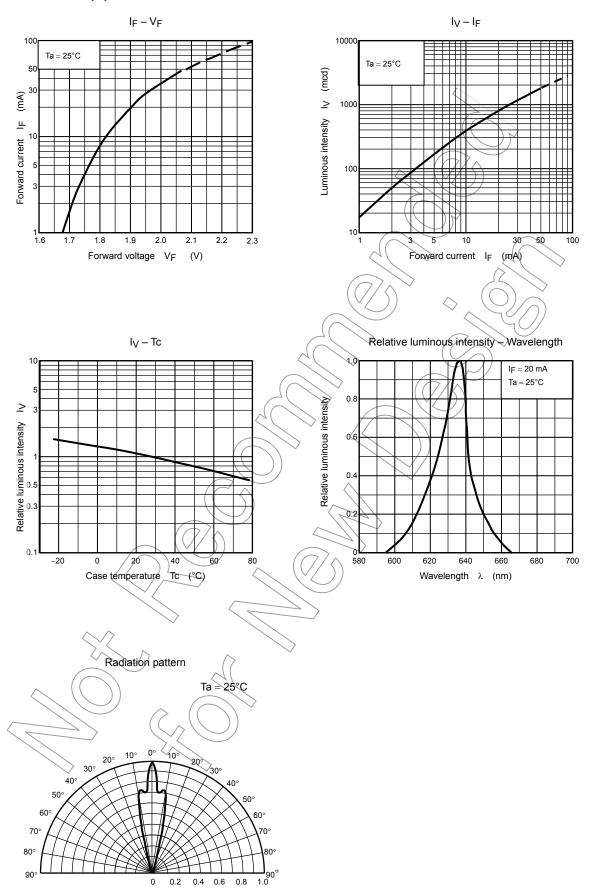


TLRE16CP(F)

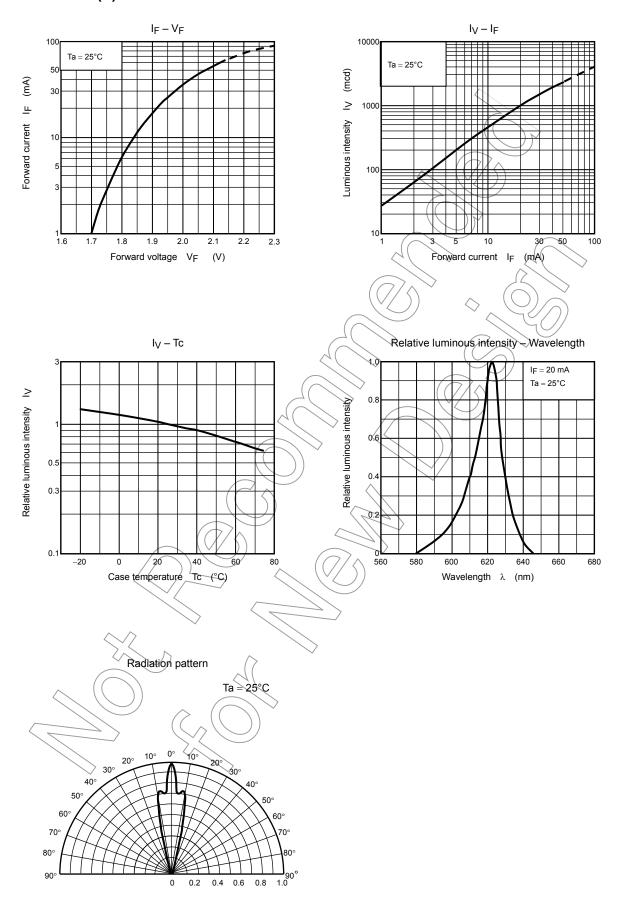


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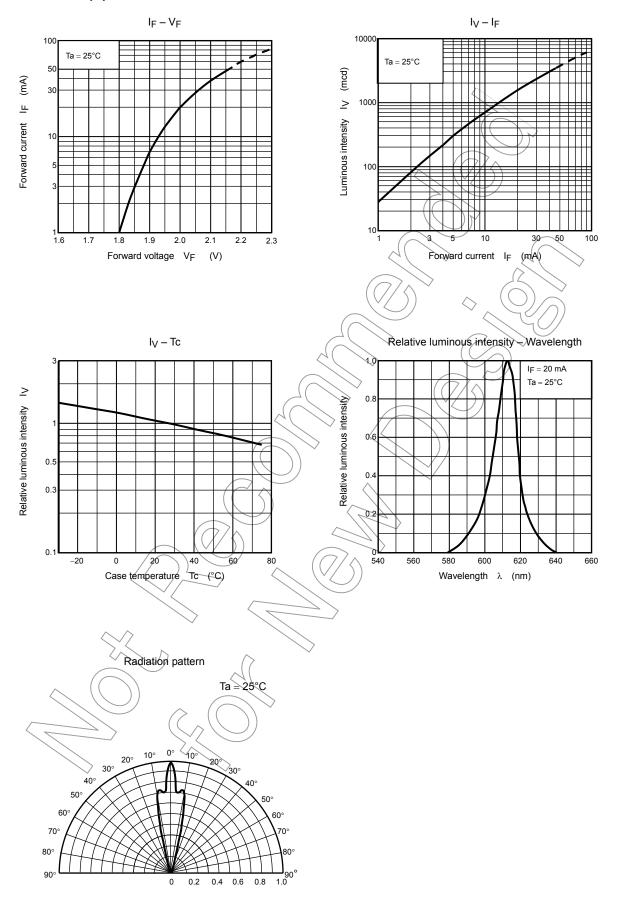
TLRME16CP(F)



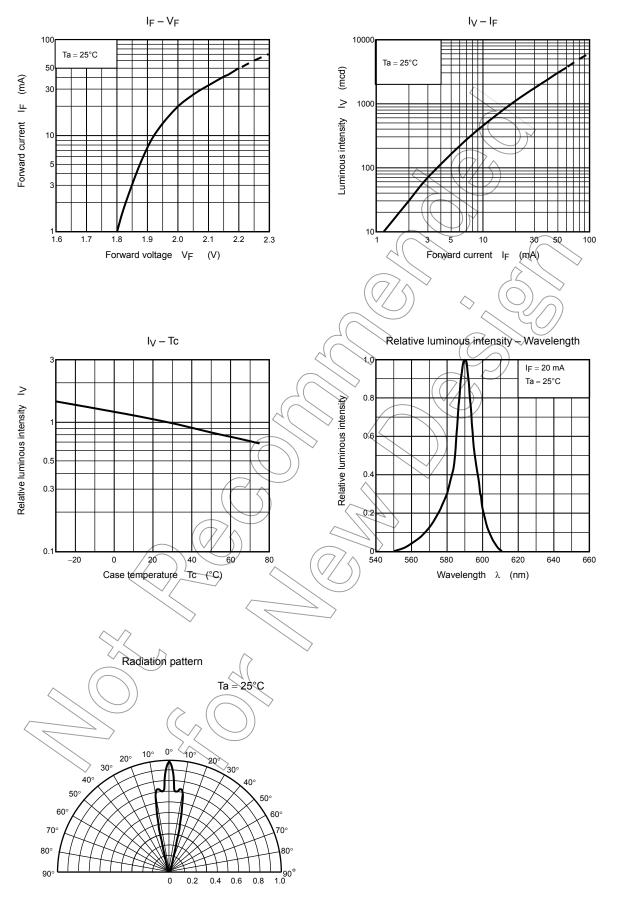
TLSE16CP(F)



TLOE16CP(F)



TLYE16CP(F)



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