TOSHIBA InGaAlP LED

TLRH17TP(F),TLRMH17TP(F),TLSH17TP(F), TLOH17TP(F),TLYH17TP(F)

Panel Circuit Indicator

Unit: mm

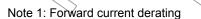
Tolerance : ± 0.2 (): Reference value ϕ 5 mm package ø5.8 InGaAlP technology ø5.0 Transparent lens Lineup: 3colors (red, orange, yellow) 8.3±0.2 9.3±0.25 High intensity light emission including Excellent low current light output max resin) F Applications: Various types of information panels, backlightings, etc. 6 Stopper lead type is also available \$ 0 TLRH17T(F), TLRMH17T(F), TLSH17T(F), TLOH17T(F), TLYH17T(F) ğ Lineup 5 Product Name Color Material TLRH17TP(F) 1. Anode TLRMH17TP(F) Red 2. Cathode TLSH17TP(F) InGaA *l*P JEDEC TLOH17TP(F) Orange JEITA TLYH17TP(F) Yellow TOSHIBA 4-5AJ2 Weight: 0.31 g (Typ.)

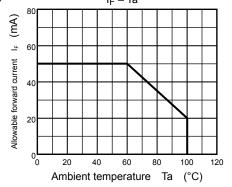
Absolute Maximum Ratings (Ta = 25°C)

Product Name	Forward Current I _F (mA)	Reverse Voltage V _R (V)	Power Dissipation	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
TLRH17TP(F)		(
TLRMH17TP(F)			775		
TLSH17TP(F)	50	4	120	-40 to 100	-40 to 120
TLOH17TP(F)					
TLYH17TP(F)	\sim				

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). IF – Ta





Electrical and Optical Characteristics (Ta = 25°C)

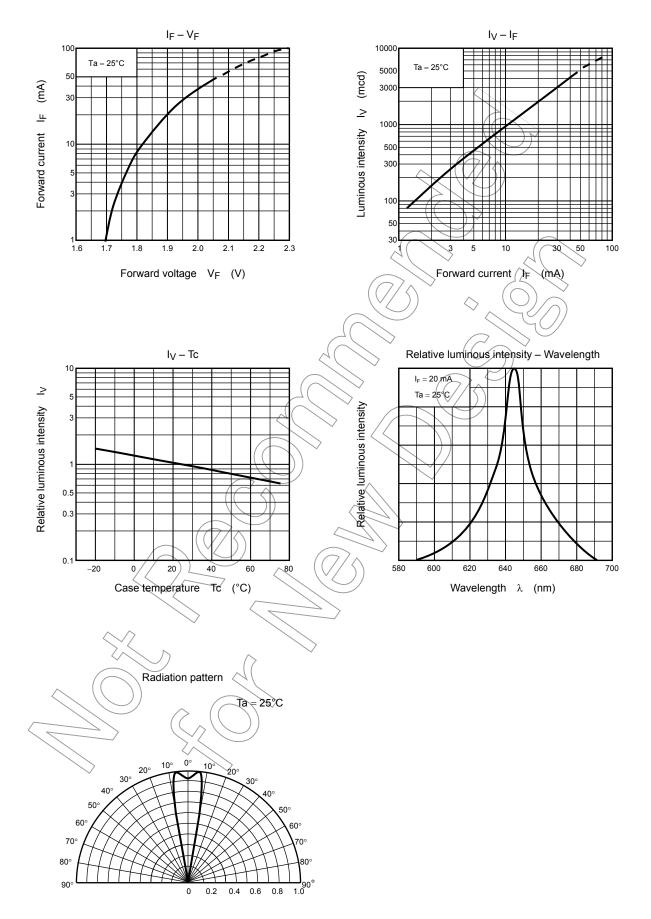
Product Name	Emission Wavelength					Luminous Intensity I _V		Forward Voltage V _F			Reverse Current I _R			
	λ_{d}			λP	Δλ		Min	Тур.	١ _F	Тур.	Max	١ _F	Max	VR
	Min	Тур.	Max	Тур.	Тур.	lF				<				
TLRH17TP(F)	—	630	—	644	13	20	850	2000	20	1.9	2.4	20	50	4
TLRMH17TP(F)	_	626	_	636	13	20	850	3200	20	1.9	(2.4	20	50	4
TLSH17TP(F)	_	613	_	623	13	20	1530	4500	20	2.0	2.4	20	50	4
TLOH17TP(F)	_	605	_	612	13	20	1530	5000	20	2.0	2.4	20	50	4
TLYH17TP(F)	581	587	595	590	13	20	1530	4800	20	2.0	2.4	20	50	4
Unit	nm mA				m	cd	mA	4	7	mA	μA	V		

Precautions

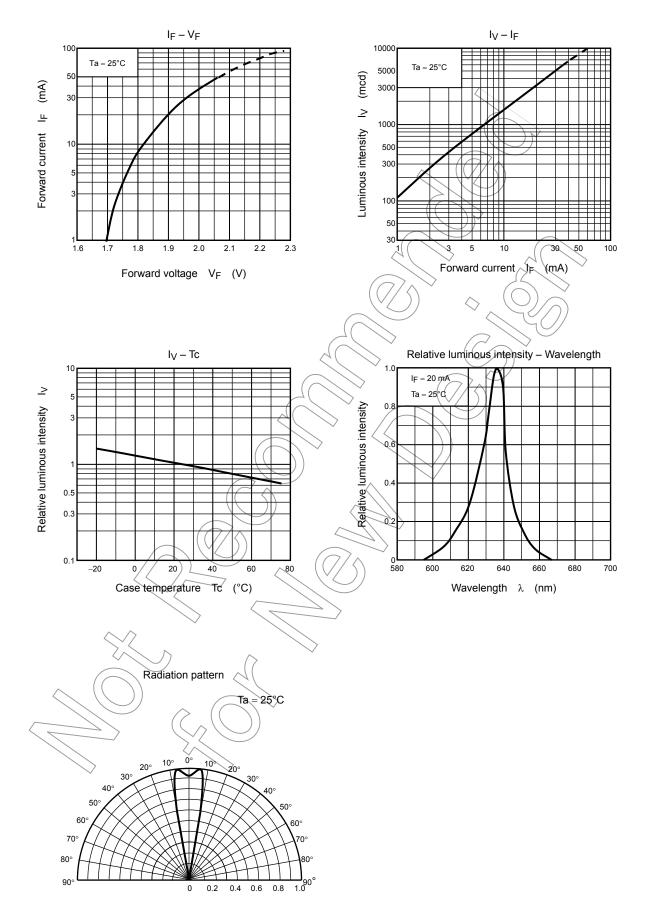
Please be careful of the following:

- 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 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.

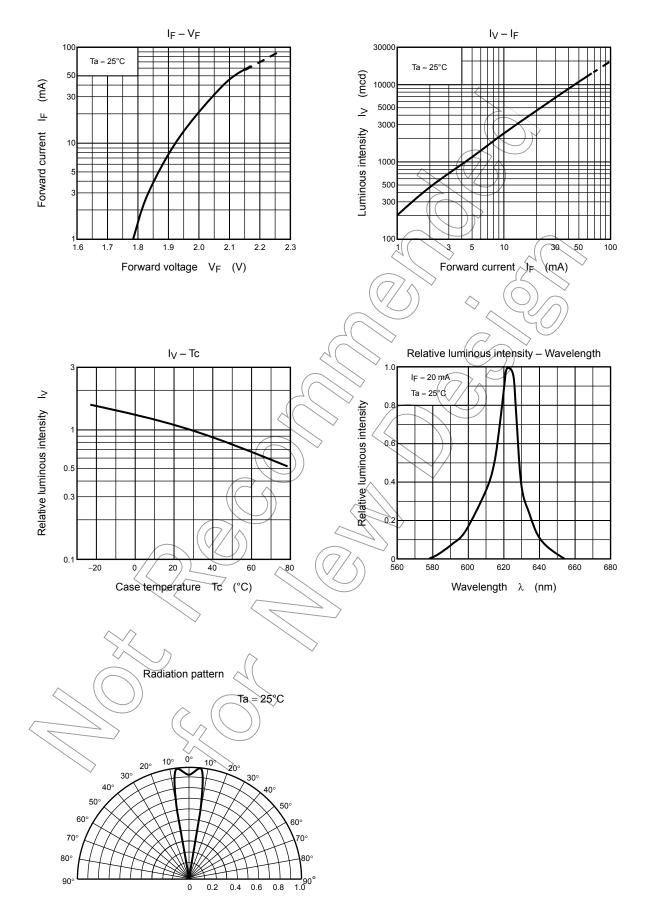
TLRH17TP(F)



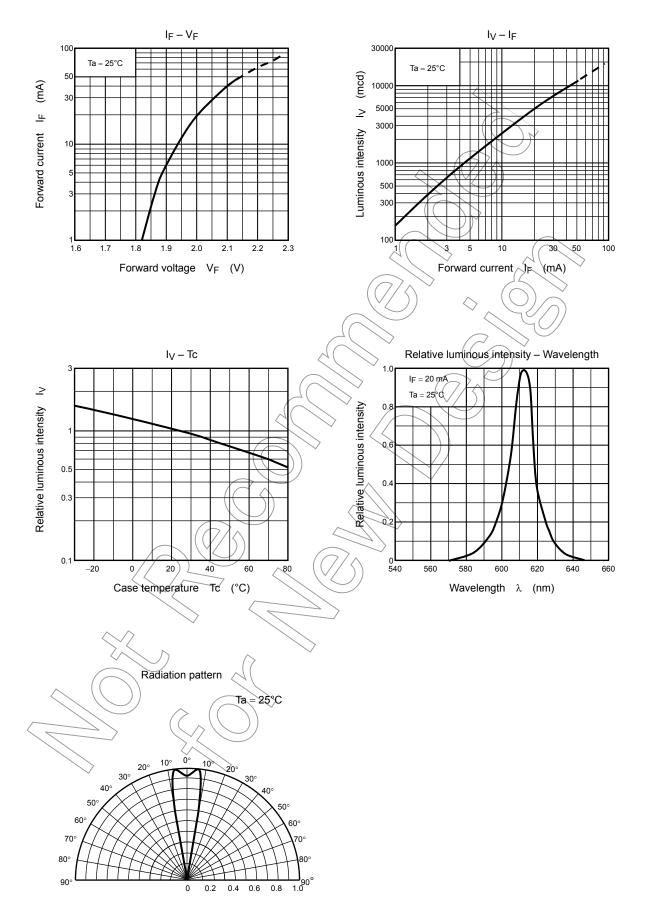
TLRMH17TP(F)



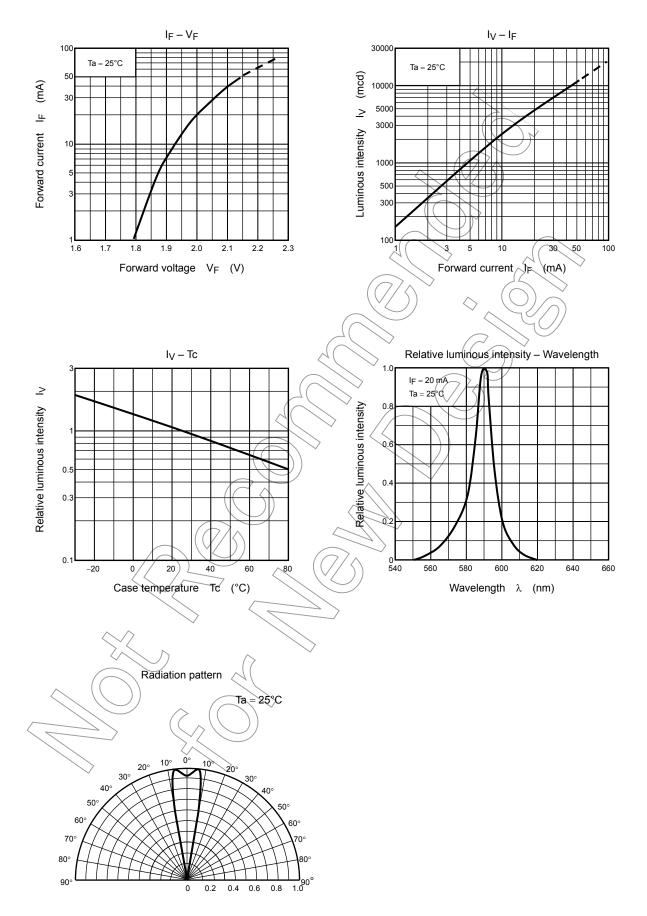
TLSH17TP(F)



TLOH17TP(F)



TLYH17TP(F)



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