TOSHIBA InGaAlP LED

TLRMH38TP(F),TLSH38TP(F),TLOH38TP(F),TLYH38TP(F)

Panel Circuit Indicator

					Unit: mm
 High intensity lig Excellent low curr Applications: traff Stopper lead type 	rpe ed, orange, yellow) ht emission rent light output fic signals, safety e	1.5 max (including protruded resin)	t (2) (2) (2) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		
Product Name	Color	Material			Cathode index
TLRMH38TP(F)	Red	20	((,		2. Cathode
TLSH38TP(F)	Red	InGaA		JEDEC	—
TLOH38TP(F)	Orange			JEITA	—
TLYH38TP(F)	Yellow	(())		TOSHIBA	4-5AK1



Absolute Maximum Ratings (Ta = 25°C)

Product Name	Forward Current	Reverse Voltage Power Dissipation V _R (V) P _D (mW)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
TLRMH38TP(F)				
TLSH38TP(F)	50	4 120	-40~100	-40~120
TLOH38TP(F)			-40* 100	-40*120
TLYH38TP(F)	$\langle \gamma \rangle$			

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).

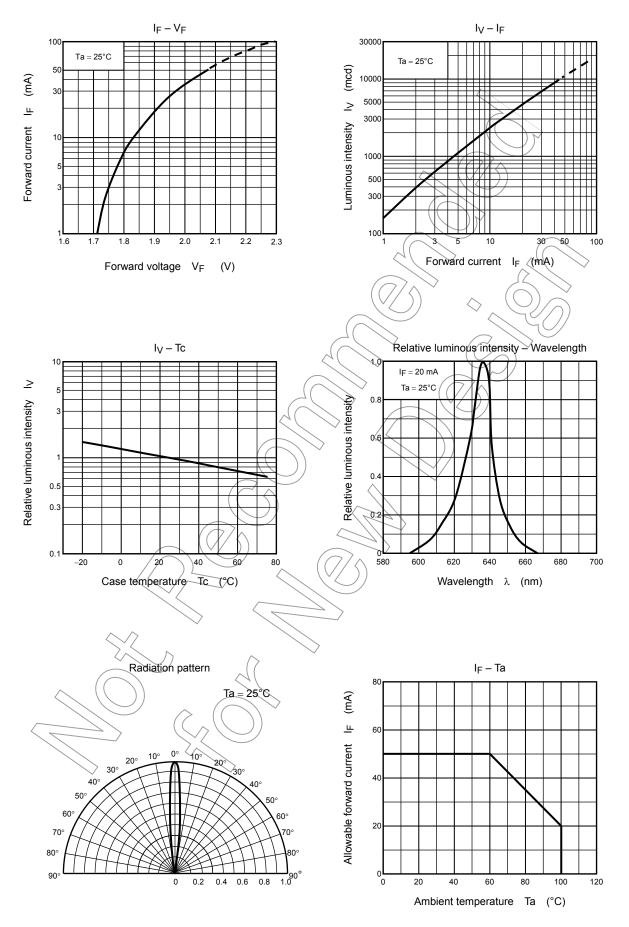
Product Name	Typ. Emission Wavelength			Luminous Intensity I _V		Forward Voltage V _F			Reverse Current I _R			
	λ_{d}	λP	Δλ	١ _F	Min	Тур.	١ _F	Тур.	Max	١ _F	Max	VR
TLRMH38TP(F)	626	(636)	13	20	1530	4800	20	1.9	2.4	20	50	4
TLSH38TP(F)	613	(623)	13	20	2720	6500	20	2.0	2.4	20	50	4
TLOH38TP(F)	605	(612)	13	20	2720	7500	20	2.0	2.A	20	50	4
TLYH38TP(F)	587	(590)	13	20	2720	7000	20	2.0	2.4) 20	50	4
Unit		nm		mA	m	cd	mA	($\sqrt{2}$	mA	μA	V

Precautions

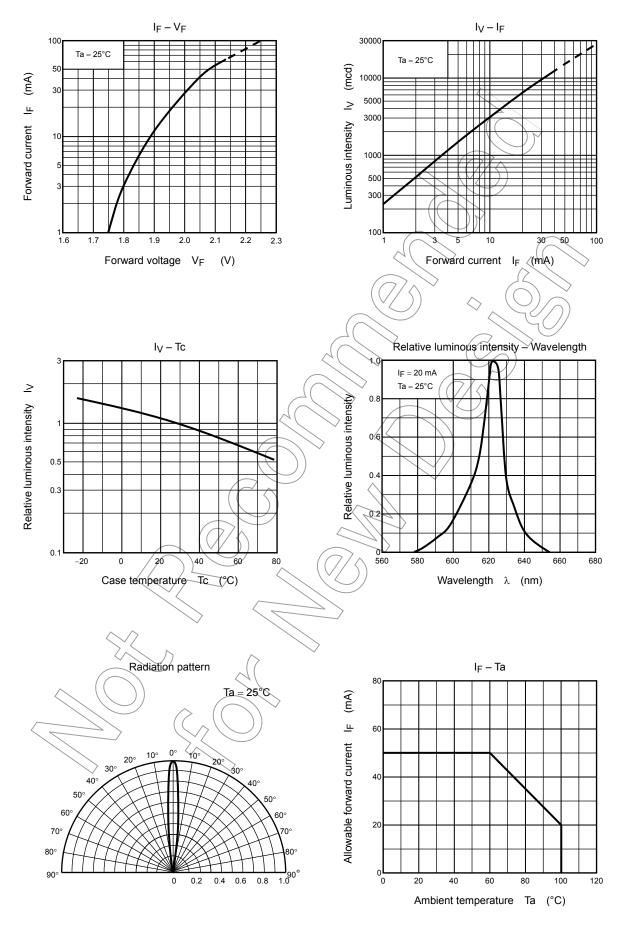
Please be careful of the following:

- 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 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.

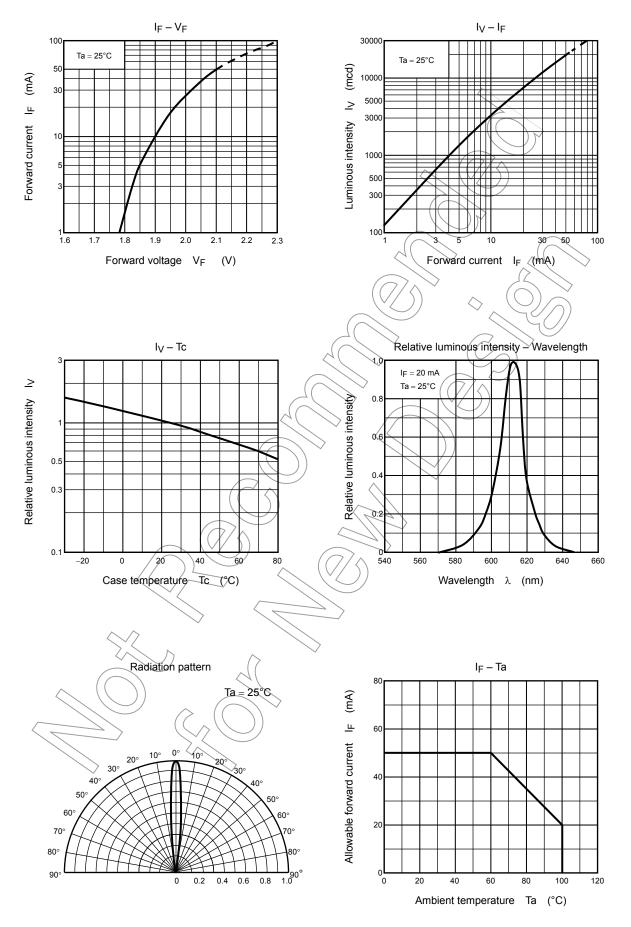
TLRMH38TP(F)



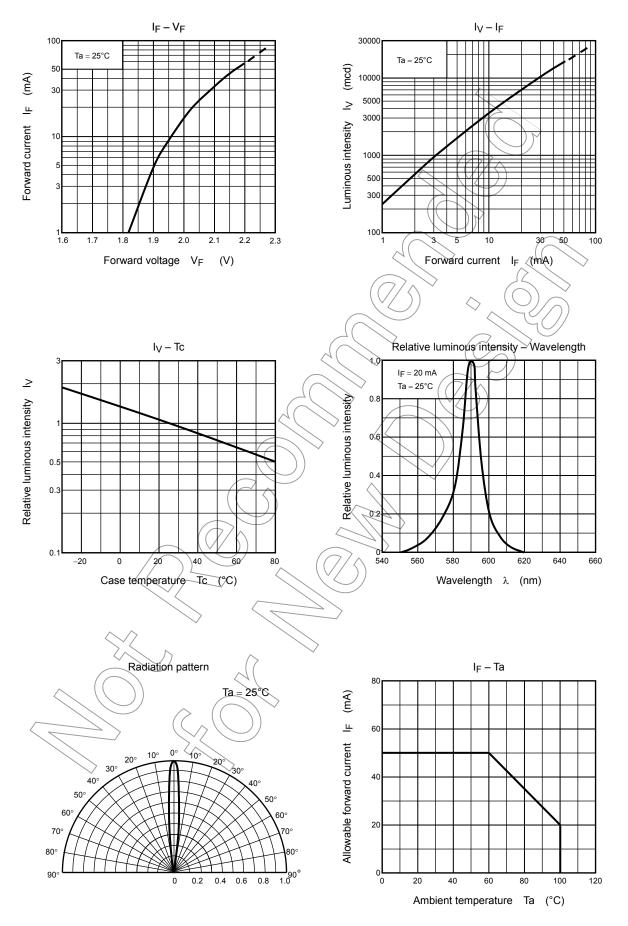
TLSH38TP(F)



TLOH38TP(F)



TLYH38TP(F)



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