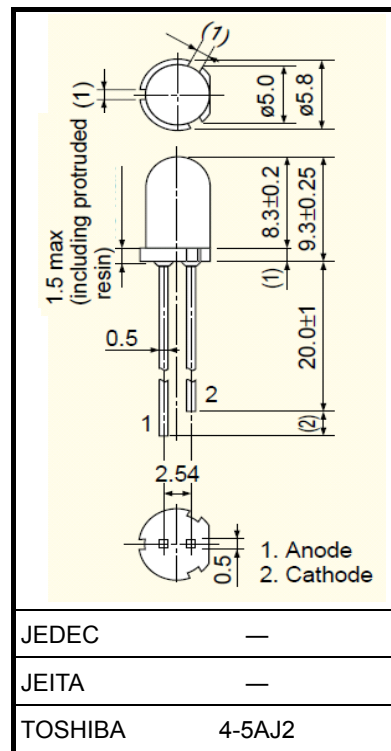


TLRMH17TP(F), TLSH17TP(F), TLOH17TP(F), TLYH17TP(F)

Panel Circuit Indicator

Unit: mm

- Lead(Pb)-free products (lead: Sn-Ag-Cu)
- 5mm package
- InGaAlP technology
- All plastic mold type
- Transparent lens
- Lineup: 3colors (red, orange, yellow)
- High intensity light emission
- Excellent low current light output
- Applications: Traffic signals, Safety equipment, Backlight
- Stopper lead type is also available
TLRMH17T(F), TLSH17T(F), TLOH17T(F), TLYH17T(F)



Weight: 0.31 g(Typ.)

Lineup

Product Name	Color	Material
TLRMH17TP(F)	Red	InGaAlP
TLSH17TP(F)	Red	
TLOH17TP(F)	Orange	
TLYH17TP(F)	Yellow	

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)
TLRMH17TP(F)	50	4	120	-40~100	-40~120
TLSH17TP(F)					
TLOH17TP(F)					
TLYH17TP(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)

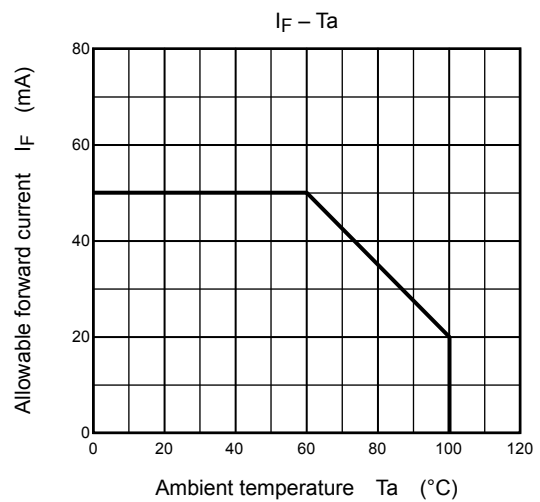
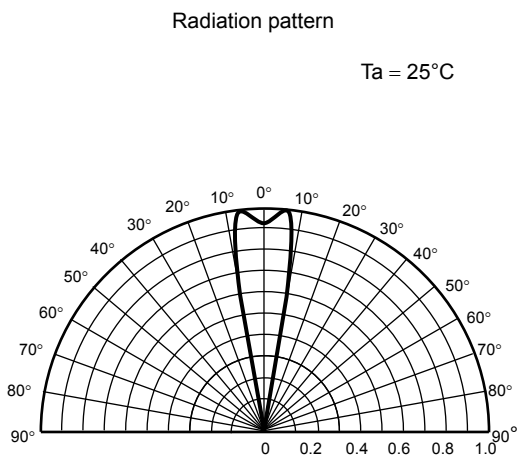
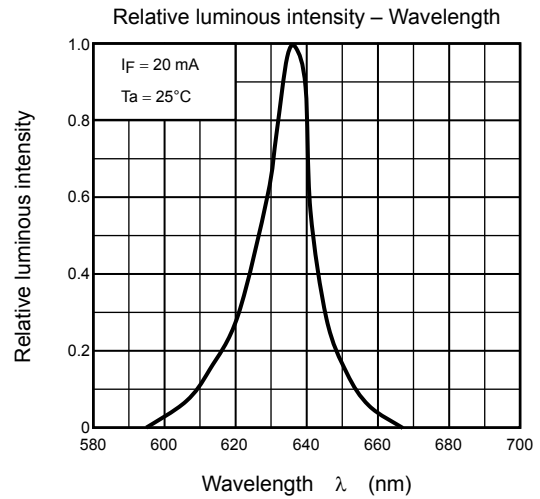
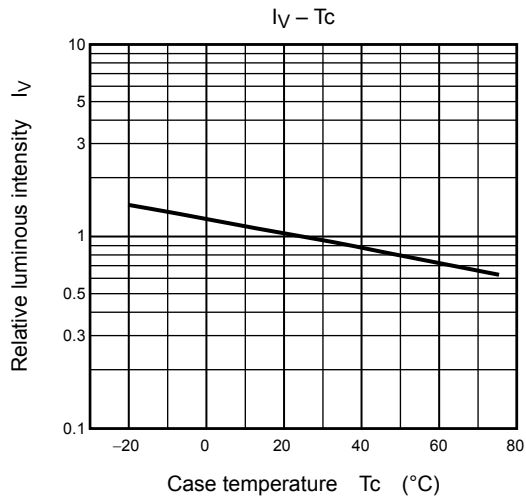
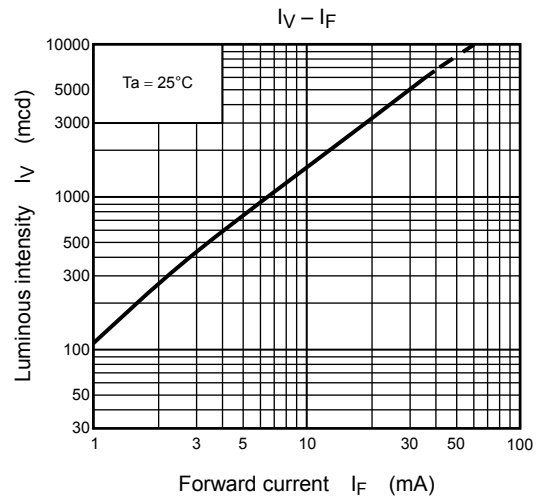
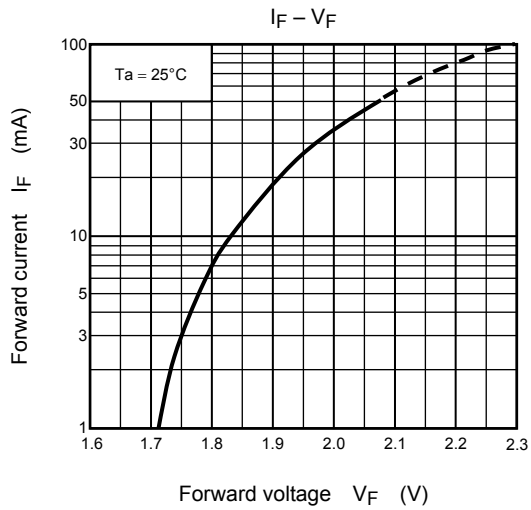
Product Name	Typ. Emission Wavelength				Luminous Intensity I _V			Forward Voltage V _F			Reverse Current I _R	
	λ _d	λ _P	Δλ	I _F	Min	Typ.	I _F	Typ.	Max	I _F	Max	V _R
TLRMH17TP(F)	626	(636)	13	20	850	3200	20	1.9	2.4	20	50	4
TLSH17TP(F)	613	(623)	13	20	1530	4500	20	2.0	2.4	20	50	4
TLOH17TP(F)	605	(612)	13	20	1530	5000	20	2.0	2.4	20	50	4
TLYH17TP(F)	587	(590)	13	20	1530	4800	20	2.0	2.4	20	50	4
Unit	nm			mA	mcd		mA	V		mA	μA	V

Precautions

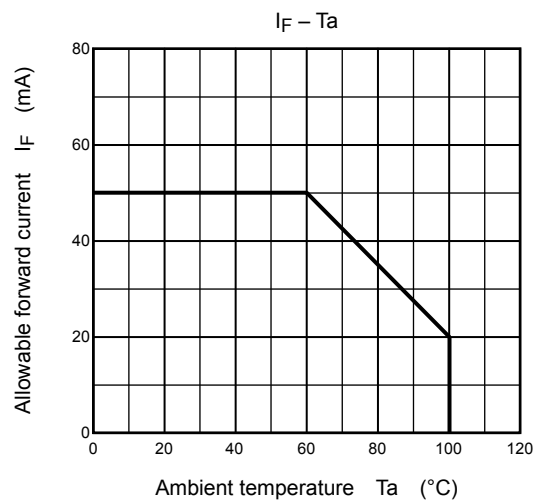
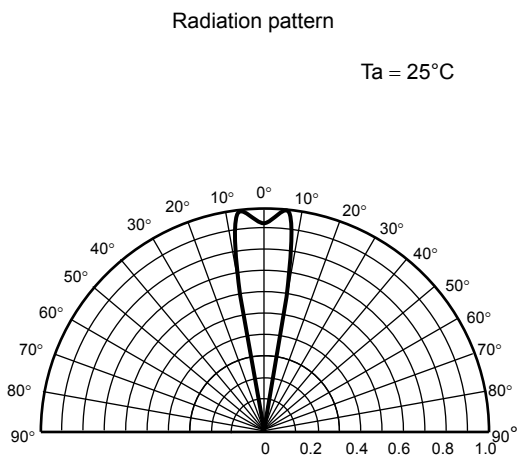
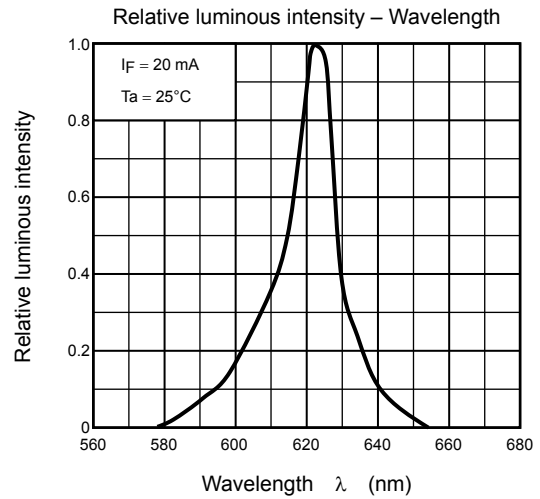
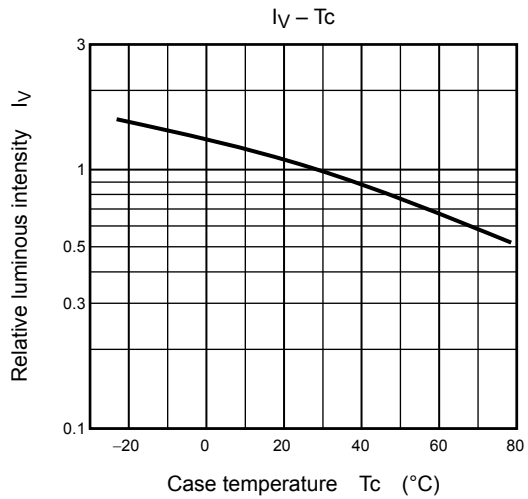
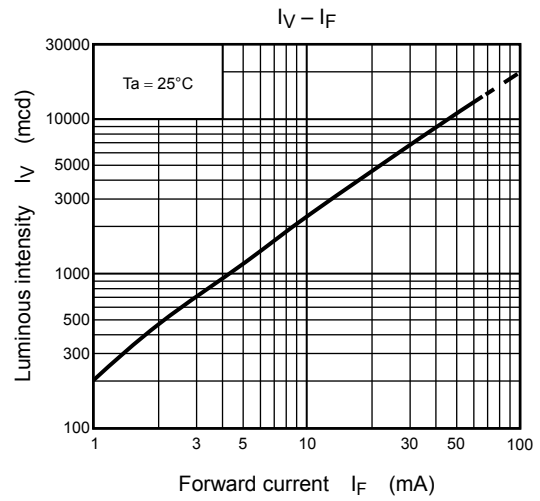
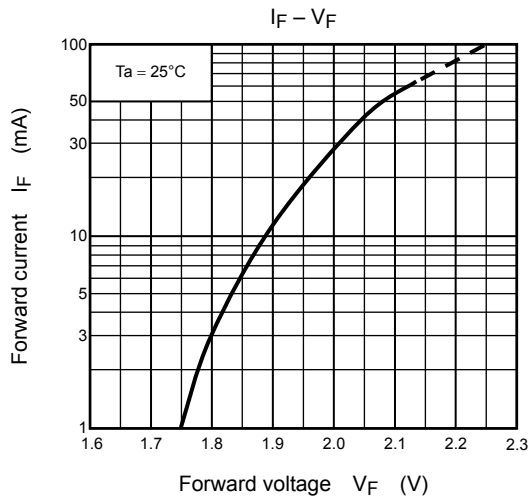
Please be careful of the following:

- 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.

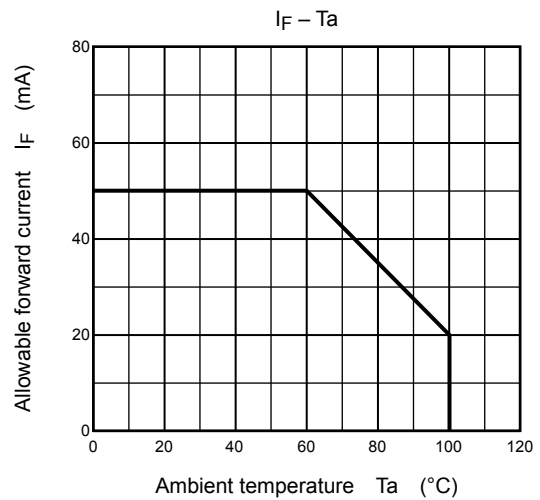
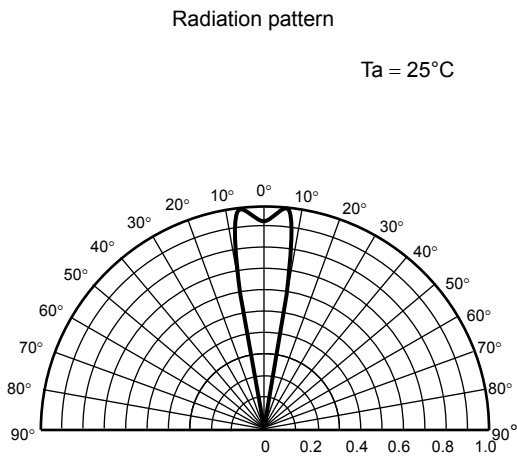
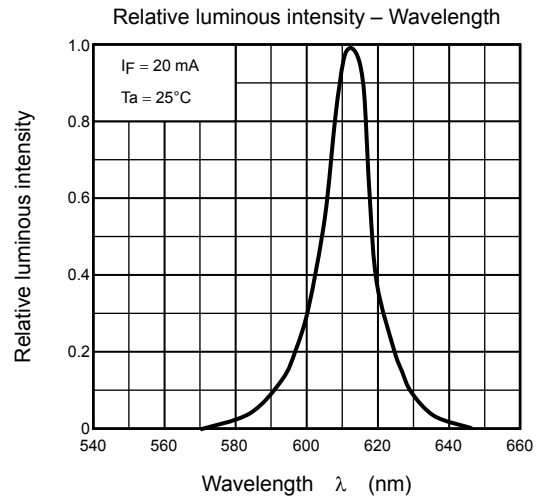
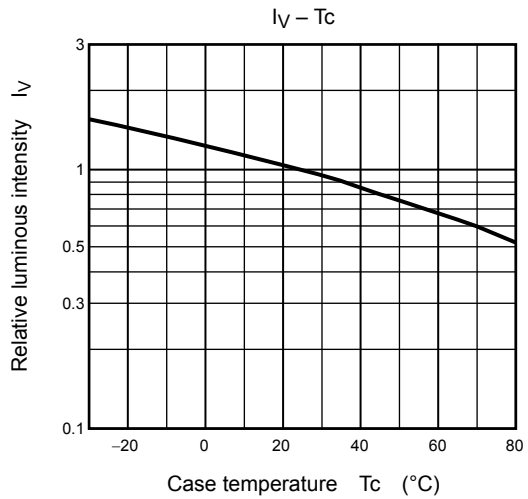
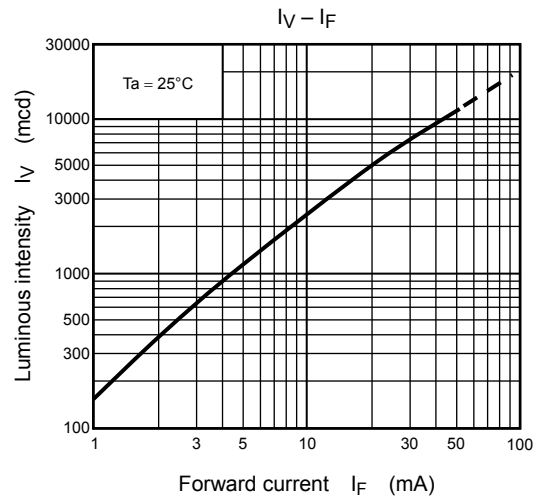
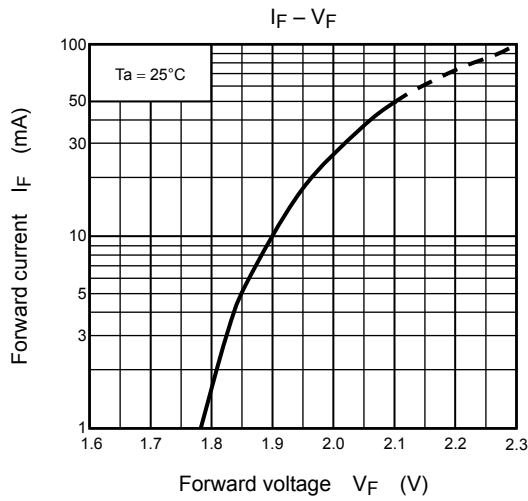
TLRMH17TP(F)



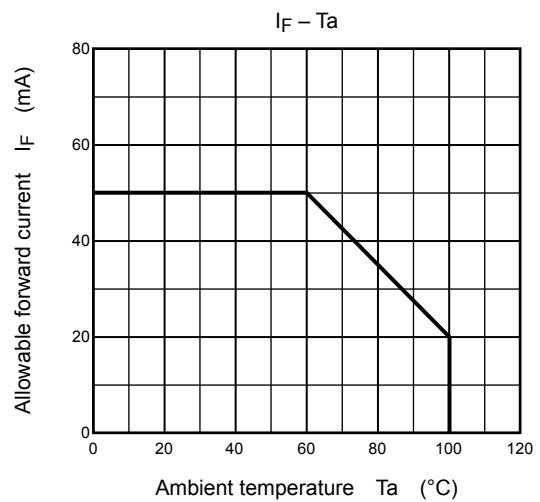
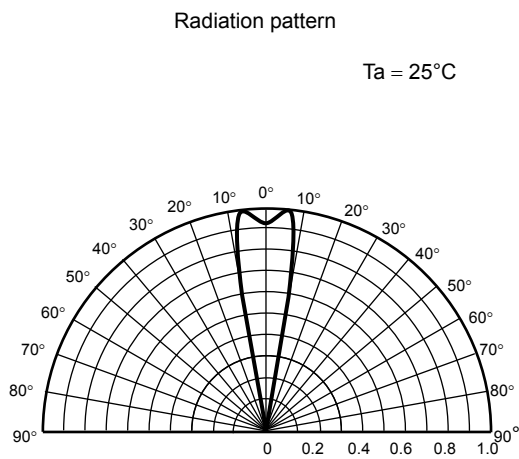
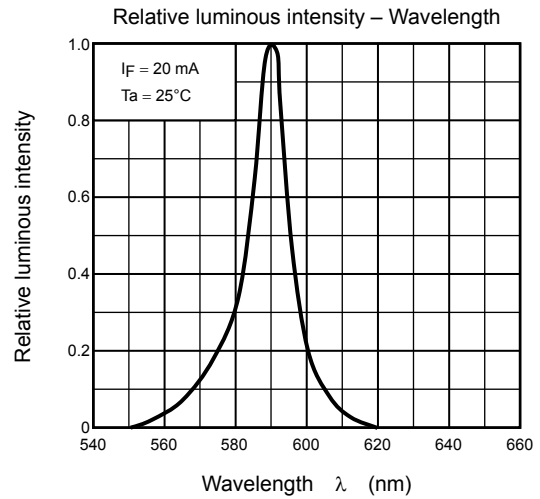
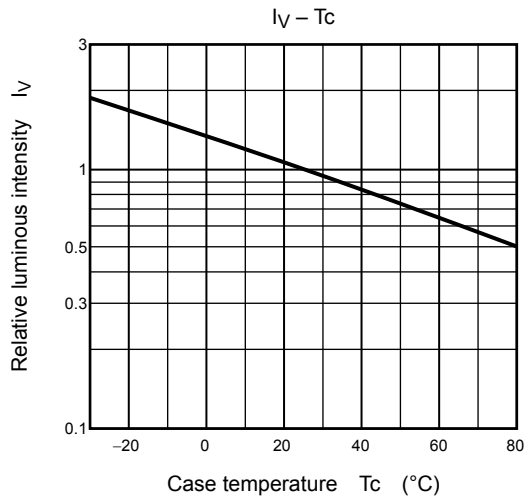
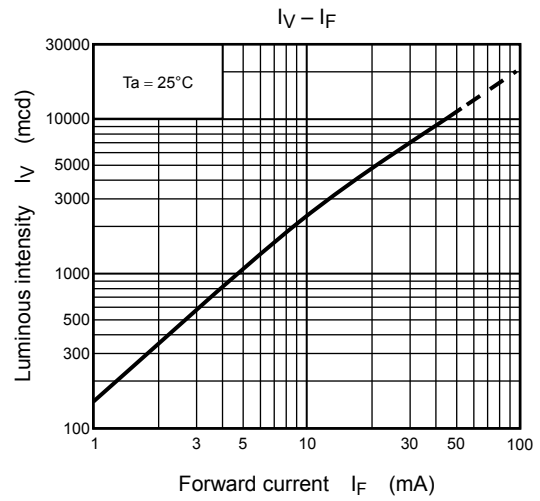
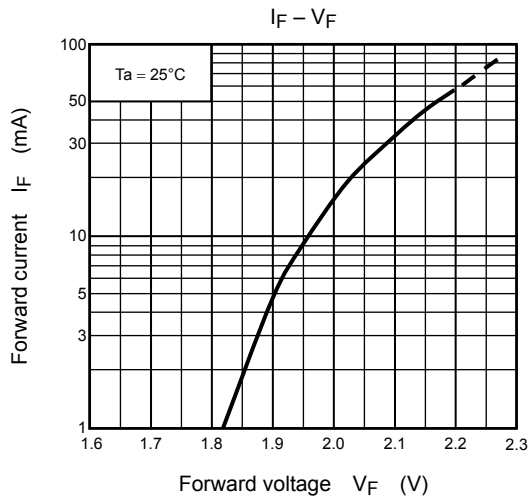
TLSh17TP(F)



TLOH17TP(F)



TLYH17TP(F)



RESTRICTIONS ON PRODUCT USE

20070701-EN

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