

TLRH62T(F), TLOH62T(F), TLYH62T(F)

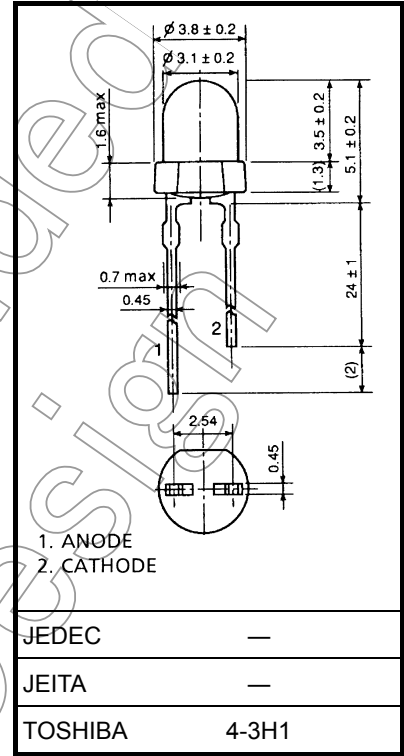
Panel Circuit Indicators

- $\phi 3$ -mm package
- InGaAlP technology
- Transparent lens
- Emitted colors: red, orange, yellow
- High luminous intensity
- High optical output power at low current
- Applications: message boards, etc.

Color and Material

Part Number	Color	Material
TLRH62T(F)	Red	InGaAlP
TLOH62T(F)	Orange	
TLYH62T(F)	Yellow	

Unit: mm



Weight: 0.14 g(typ.)

Not Recommended for New Design

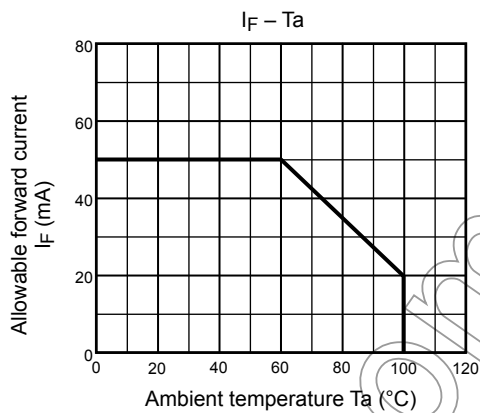
Absolute Maximum Ratings (Ta = 25°C)

Part Number	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)
TLRH62T(F)	50	4	120	-40 to 100	-40 to 120
TLOH62T(F)					
TLYH62T(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).

Note1: Forward current derating



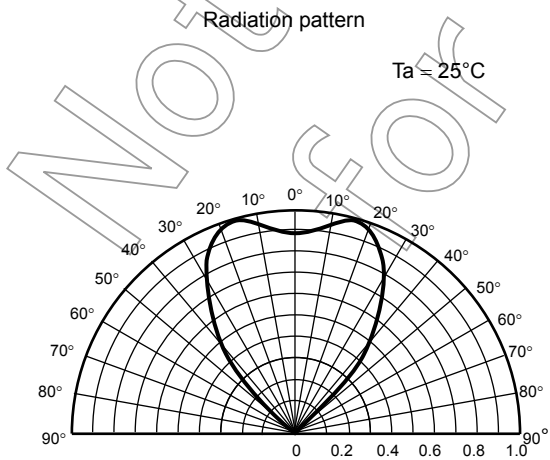
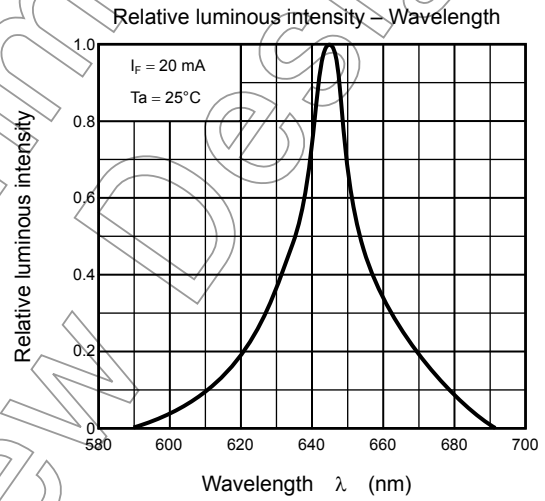
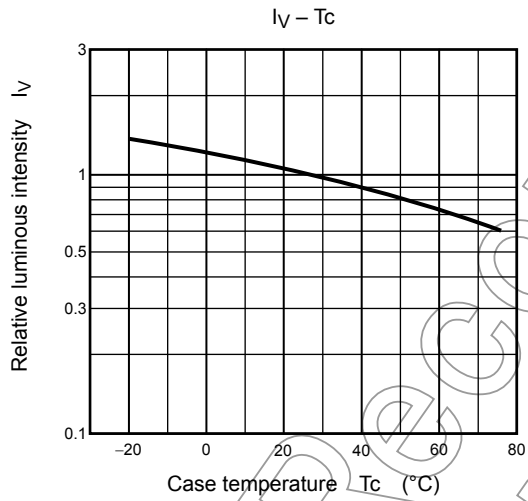
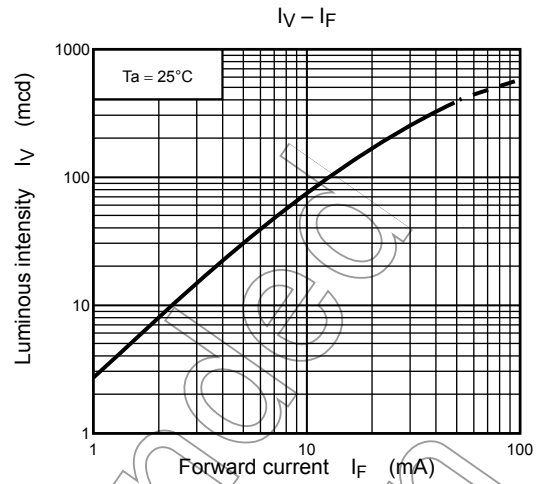
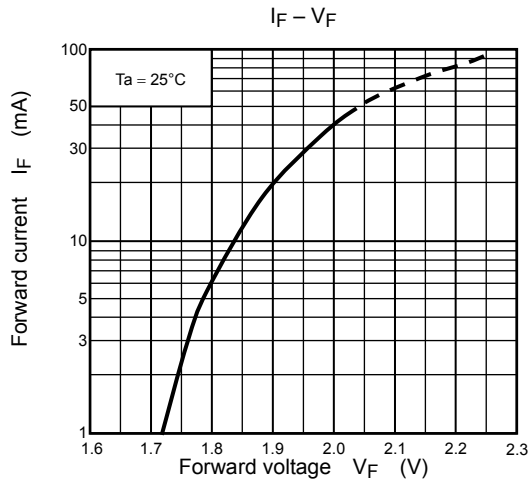
Electrical and Optical Characteristics (Ta = 25°C)

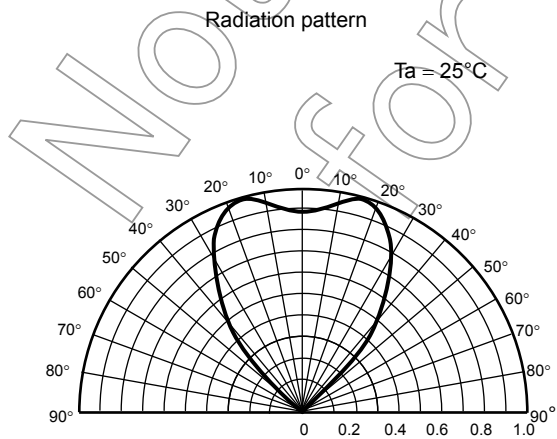
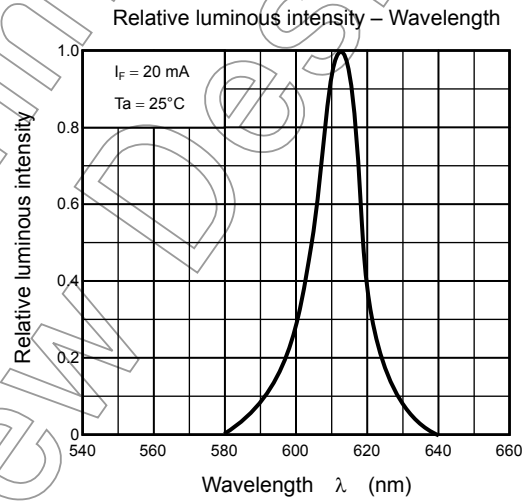
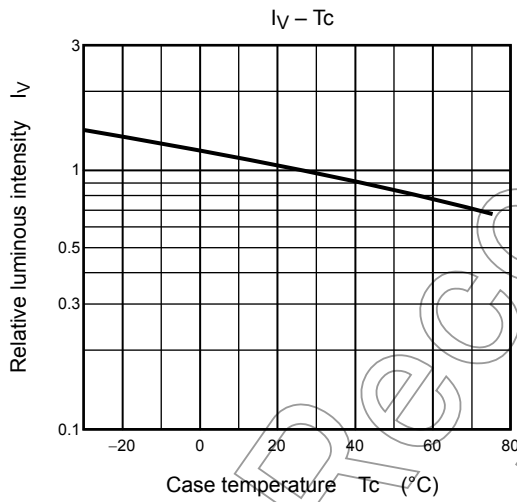
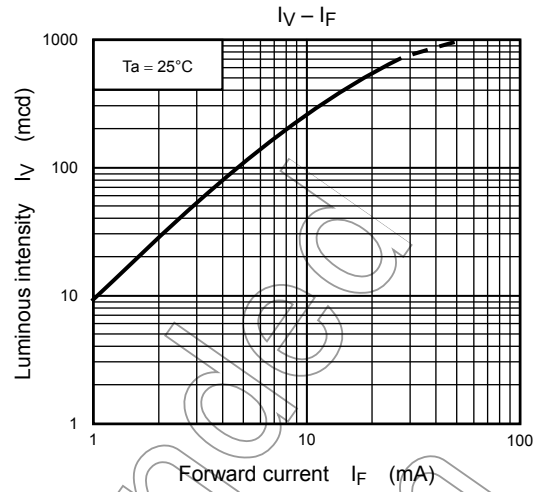
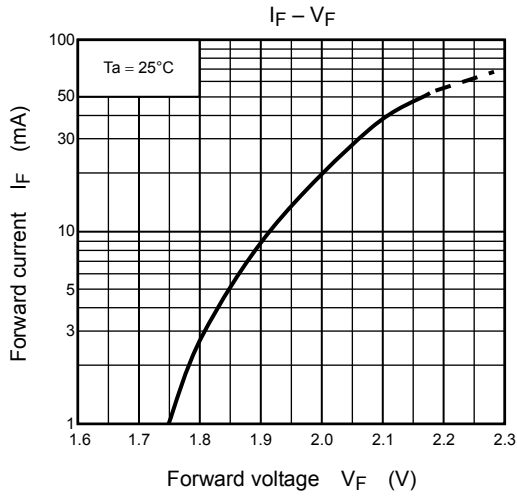
Part Number	Typ. Emission Wavelength			Luminous Intensity			Forward Voltage			Reverse Current		
	λ _d	λ _P	Δλ	I _F	Min	Typ.	I _F	Typ.	Max	I _F	Max	V _R
TLRH62T(F)	630	644	13	20	47.6	180	20	1.9	2.4	20	50	4
TLOH62T(F)	605	612	13	20	153	550	20	2.0	2.4	20	50	4
TLYH62T(F)	587	590	13	20	153	400	20	2.0	2.4	20	50	4
Unit	nm			mA	mcd		mA	V		mA	μA	V

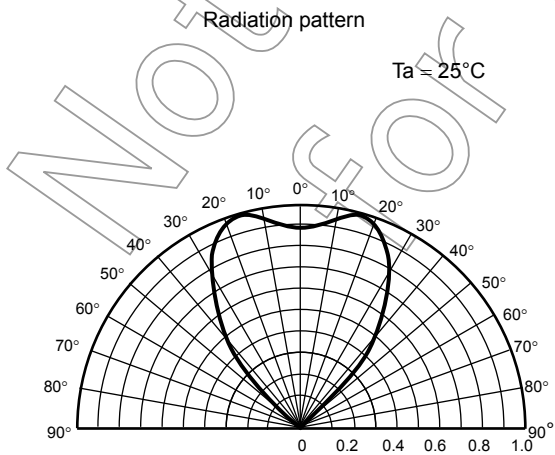
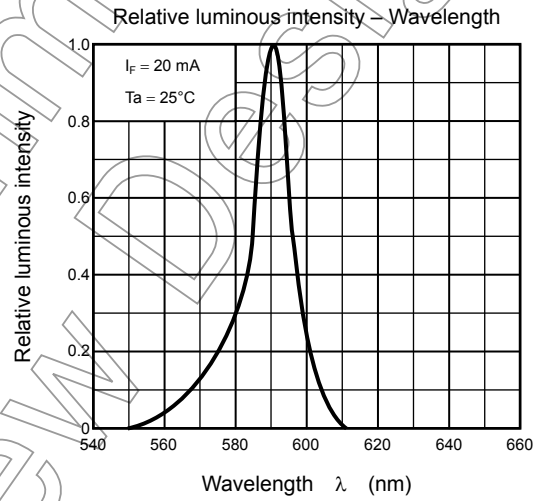
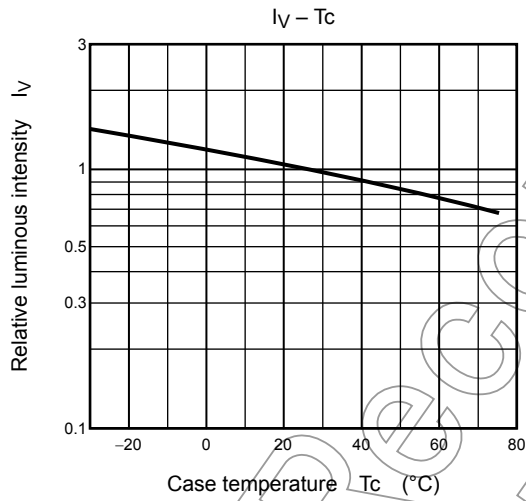
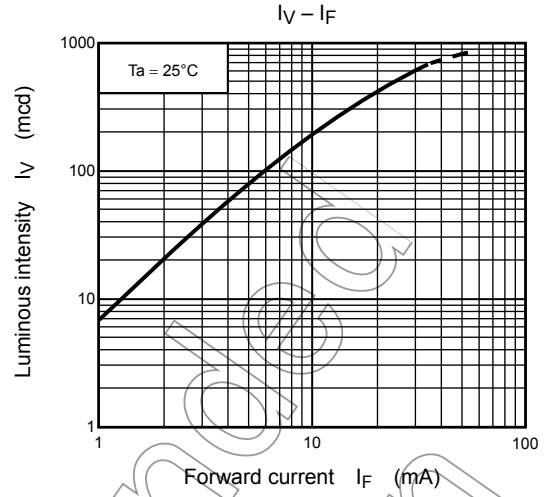
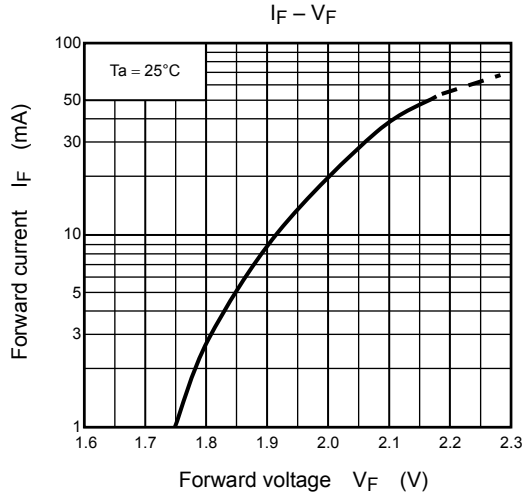
Precautions

Please be careful of the following:

- Soldering temperature: 260°C max, soldering time: 3 seconds 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.







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