

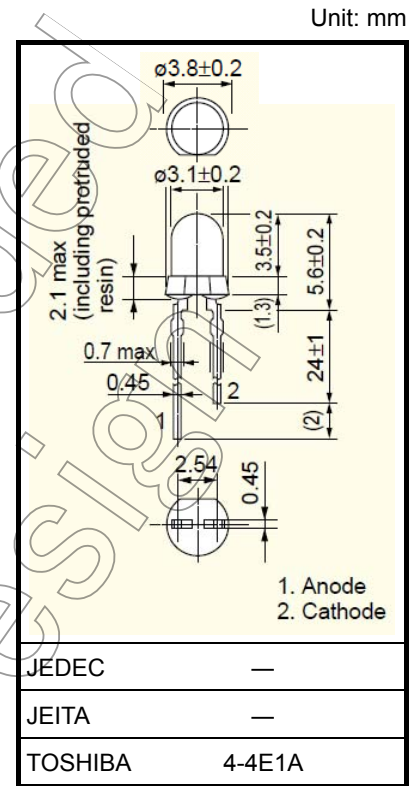
TLGU53T(F),TLGU53C(F),TLGU53D(F),TLPGU53T(F),TLPGU53C(F),TLPGU53D(F)

Panel Circuit Indicator

- 3mm package
- InGaAlP technology
- All plastic mold type
 - TLGU53T(F), TLPGU53T(F) : Transparent lens
 - TLGU53C(F), TLPGU53C(F) : Colored, transparent lens
 - TLGU53D(F), TLPGU53D(F) : Colored, diffused lens
- Colors: green, pure green
- High intensity light emission
- Excellent low current light output
- Fast response time, capable of pulse operation
- Applications: message signboard, safety equipment, indicator

Lineup

Product Name	Color	Material
TLGU53T(F)	Green	InGaAlP
TLGU53C(F)	Green	
TLGU53D(F)	Green	
TLPGU53T(F)	Pure green	
TLPGU53C(F)	Pure green	
TLPGU53D(F)	Pure green	



Weight: 0.14 g(Typ.)

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)
TLGU53T(F)	30	4	72	-40~100	-40~120
TLGU53C(F)	30	4	72		
TLGU53D(F)	30	4	72		
TLPGU53T(F)	30	4	72		
TLPGU53C(F)	30	4	72		
TLPGU53D(F)	30	4	72		

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
TLGU53T(F)	571	(574)	17	20	47.6	170	20	2.1	2.4	20	50	4
TLGU53C(F)	571	(574)	17	20	47.6	150	20	2.1	2.4	20	50	4
TLGU53D(F)	571	(574)	17	20	27.2	80	20	2.1	2.4	20	50	4
TLPGU53T(F)	558	(562)	14	20	27.2	80	20	2.1	2.4	20	50	4
TLPGU53C(F)	558	(562)	14	20	27.2	70	20	2.1	2.4	20	50	4
TLPGU53D(F)	558	(562)	14	20	15.3	40	20	2.1	2.4	20	50	4
Unit	nm			mA	mcd		mA	V		mA	μA	V

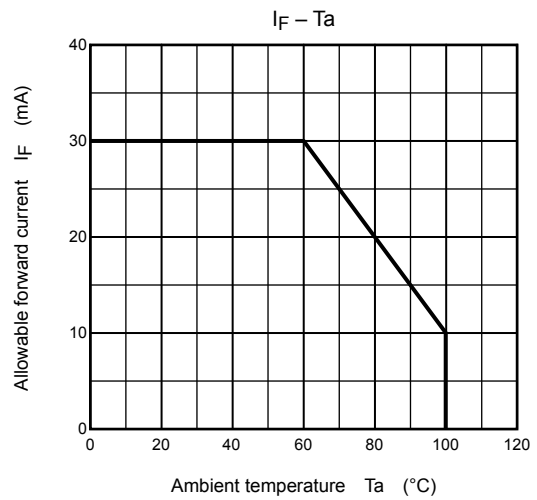
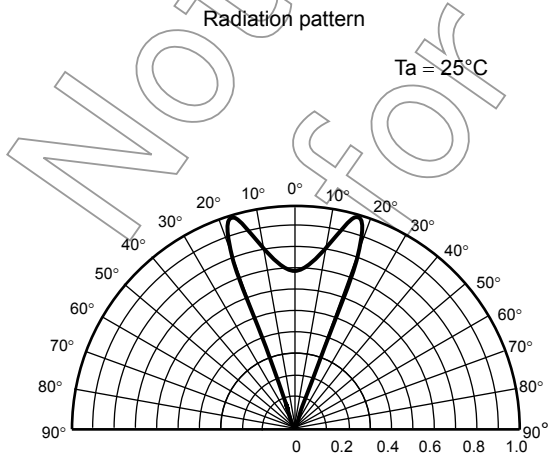
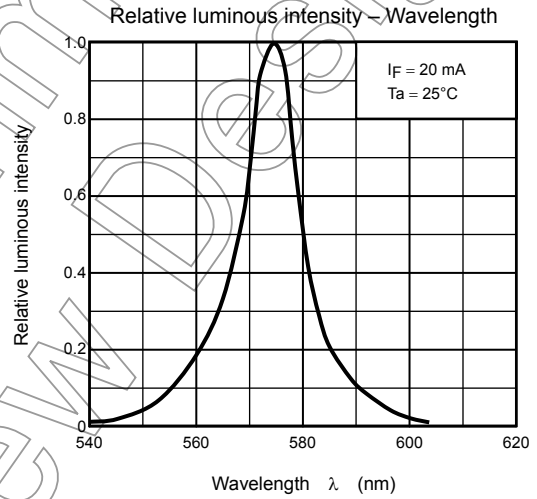
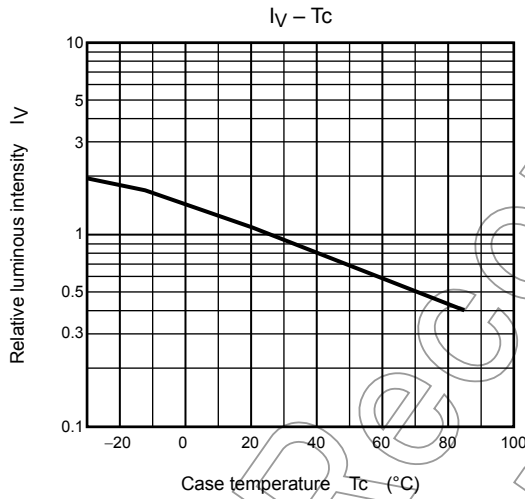
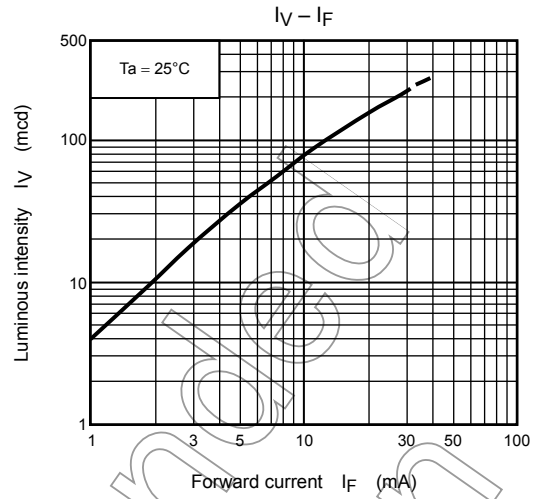
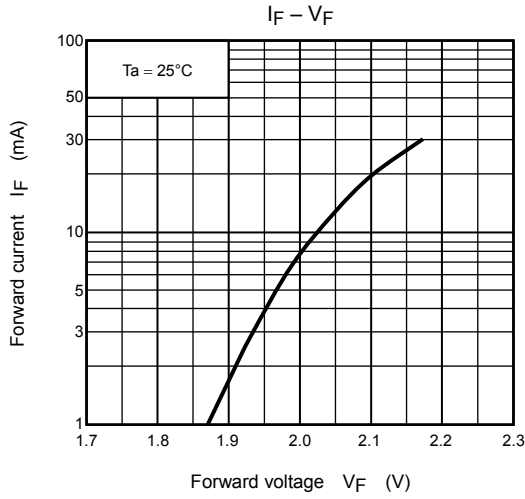
Precautions

Please be careful of the following:

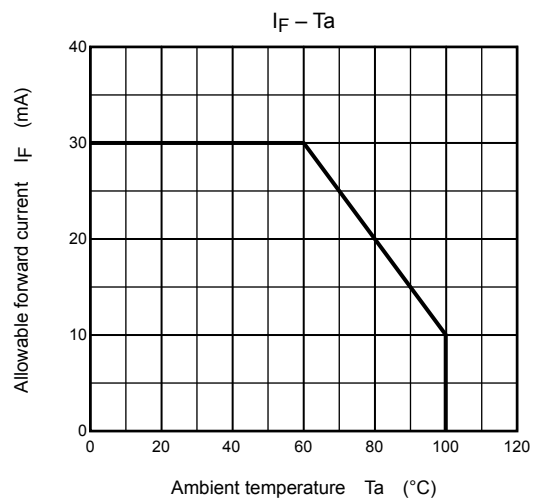
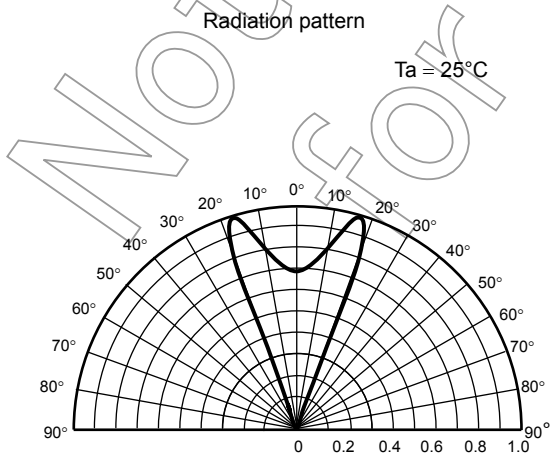
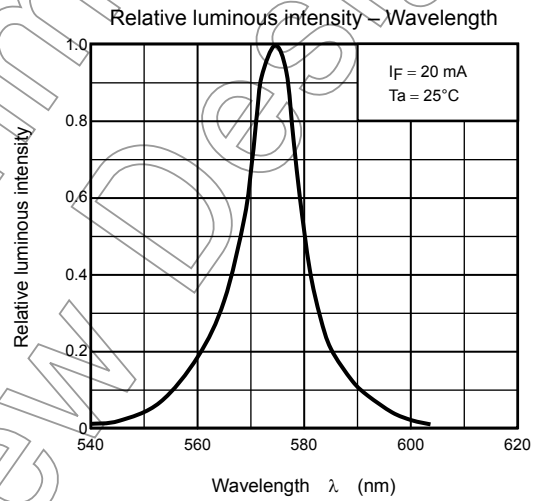
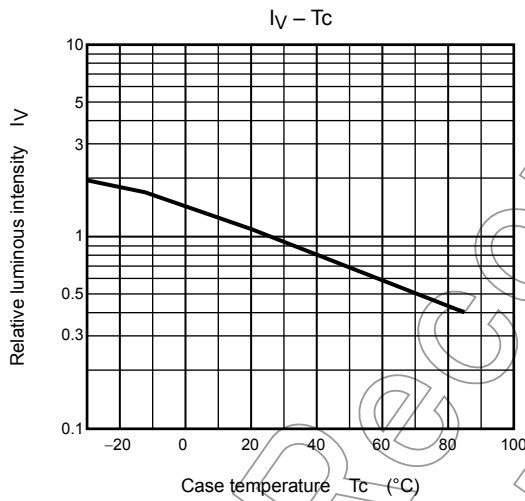
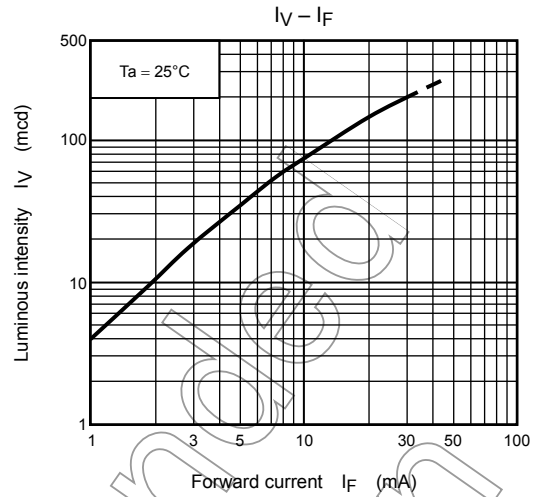
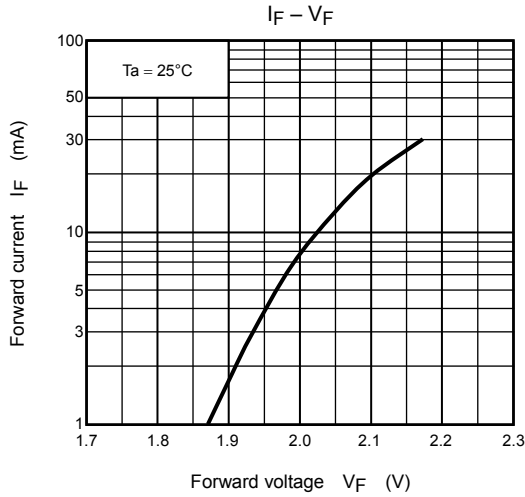
- Soldering temperature: 260°C max, soldering time: 3 s max (soldering portion of lead: up to 1.6 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 1.6 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- 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.

Not Recommended for New Design

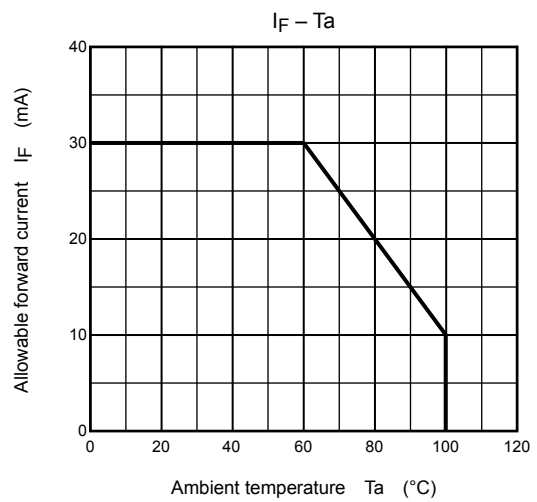
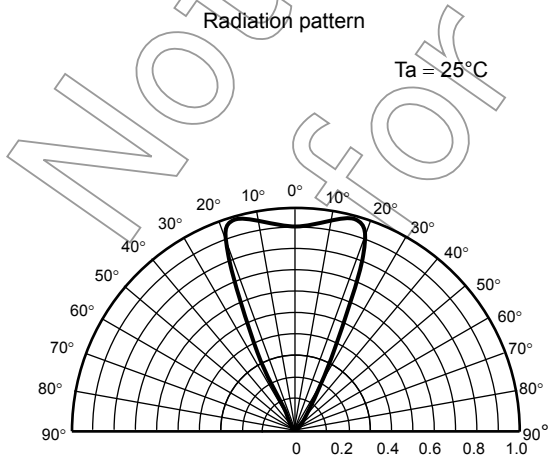
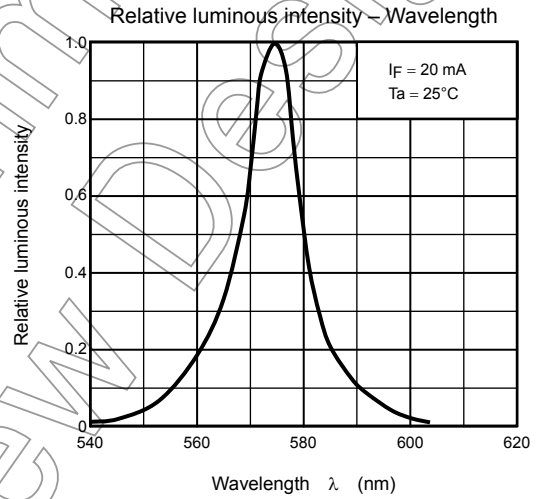
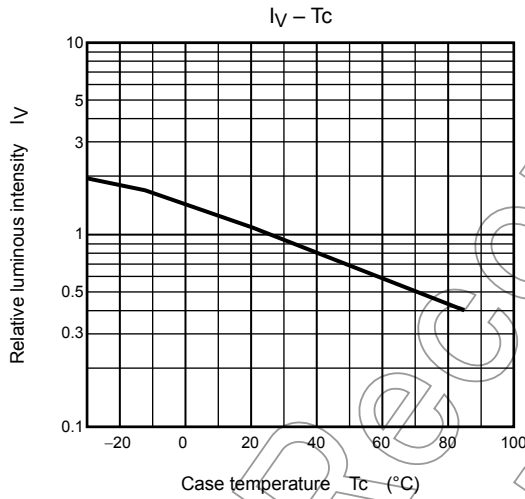
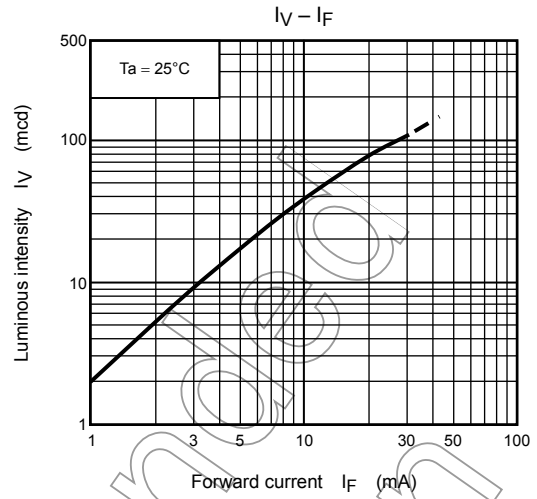
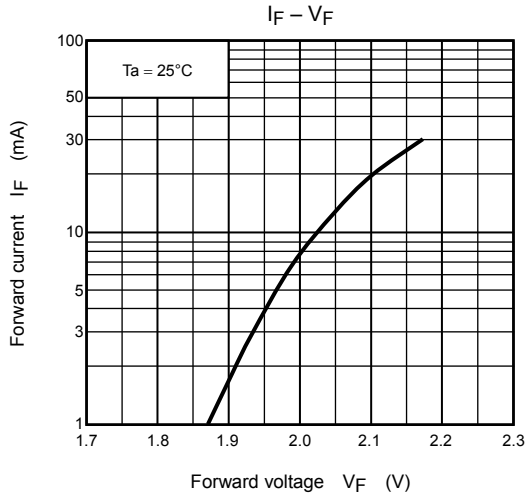
TLGU53T(F)



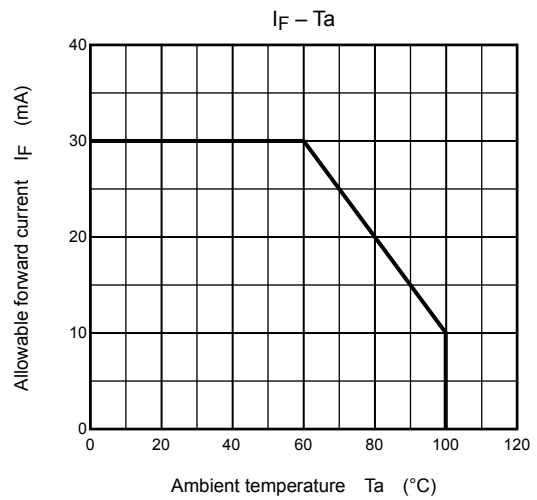
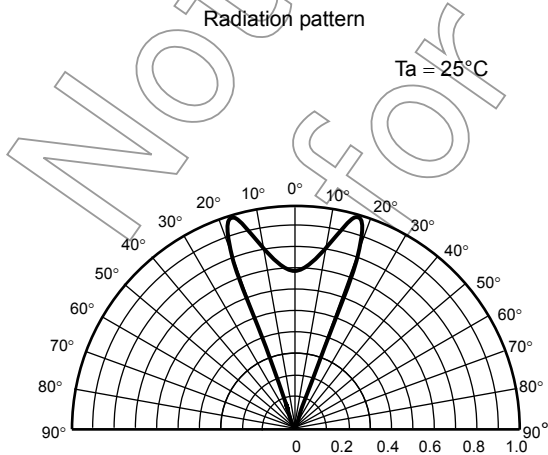
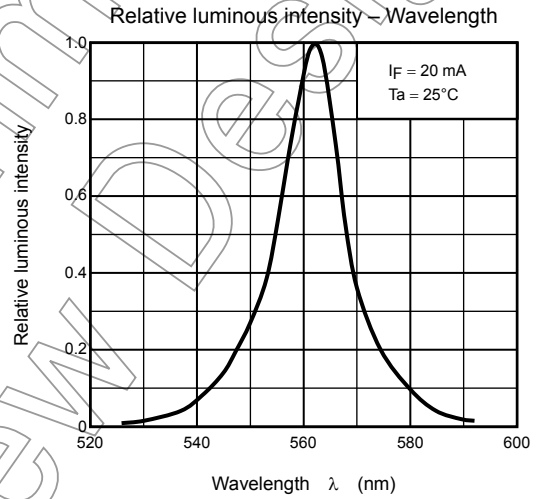
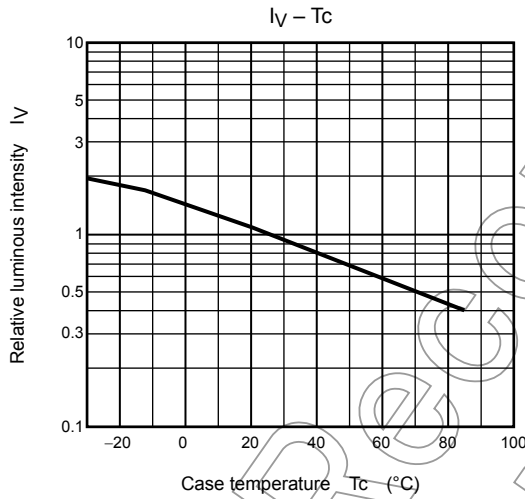
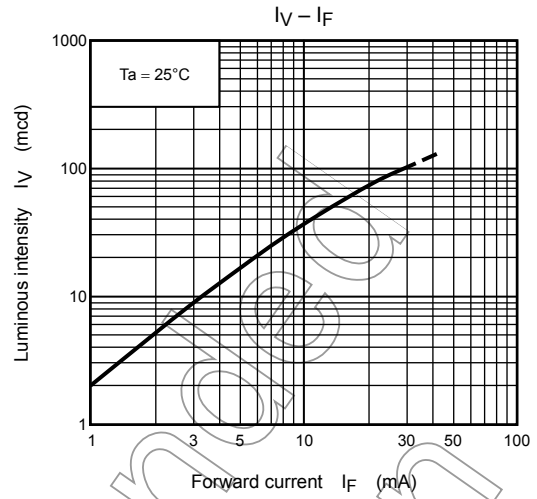
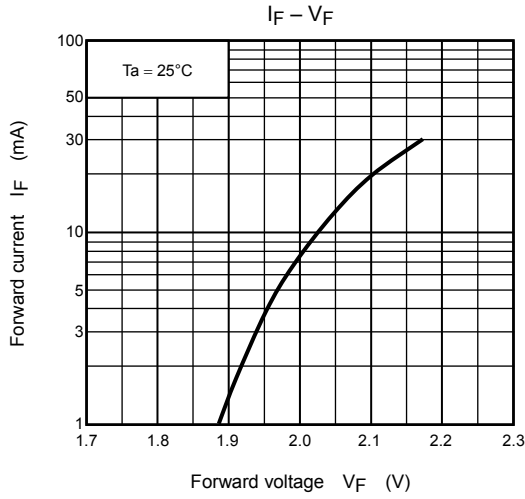
TLGU53C(F)



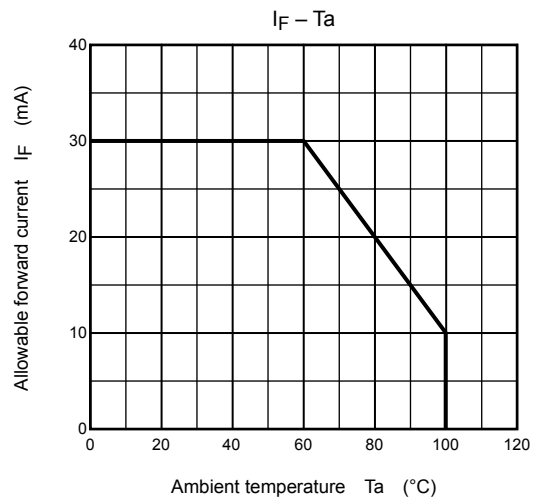
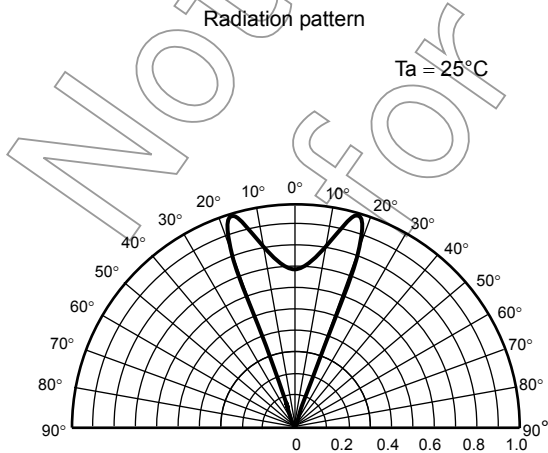
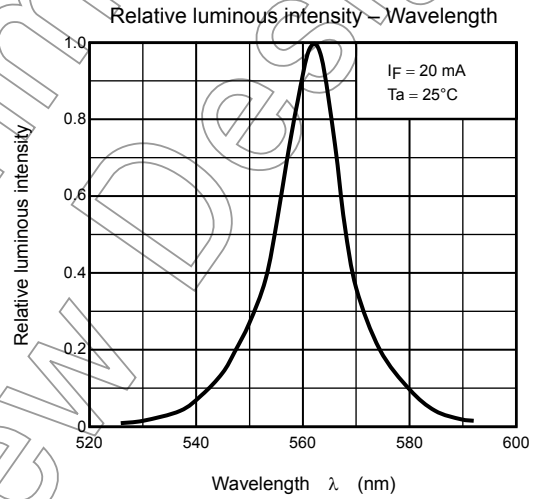
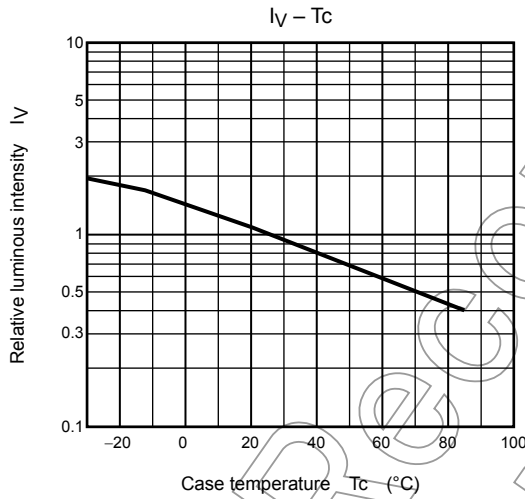
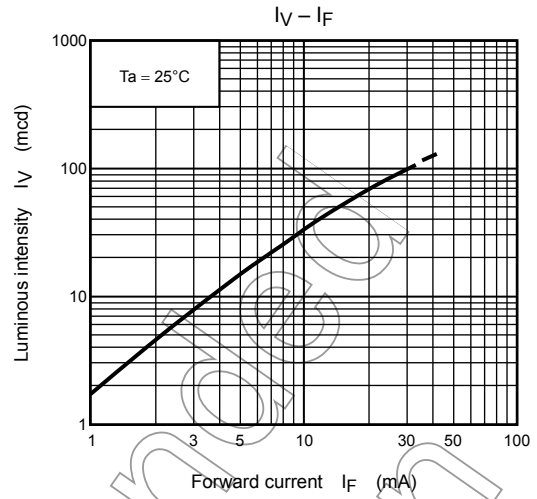
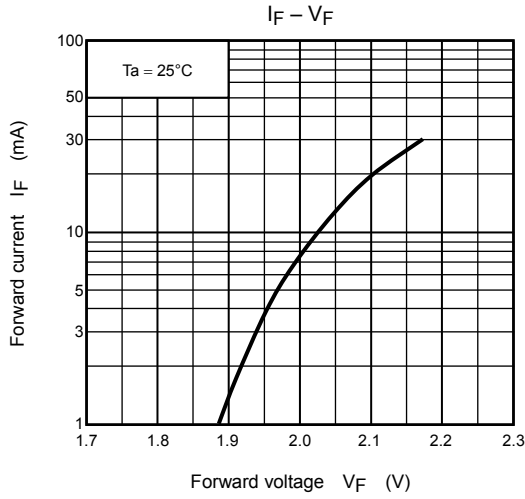
TLGU53D(F)



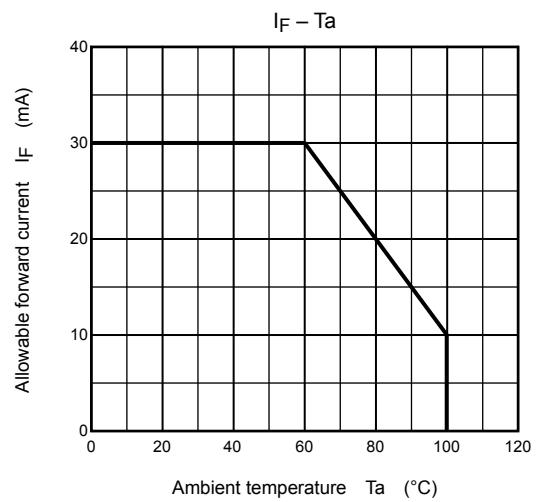
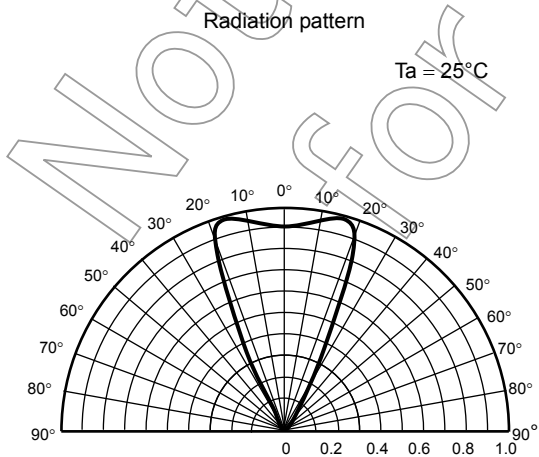
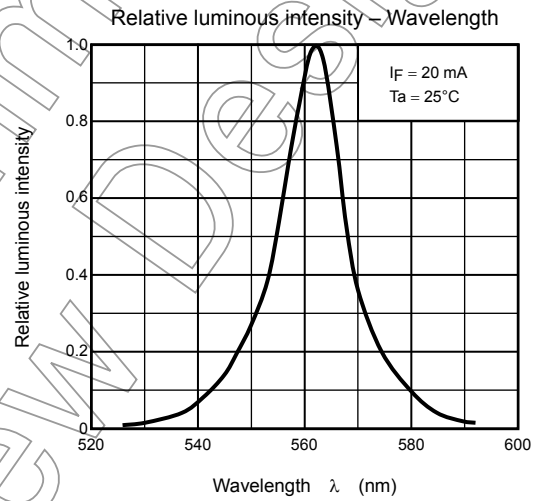
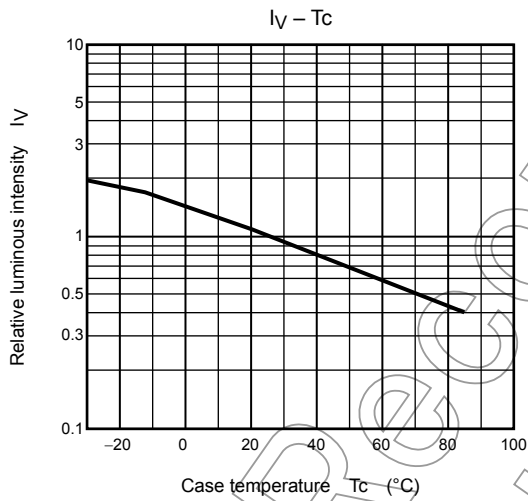
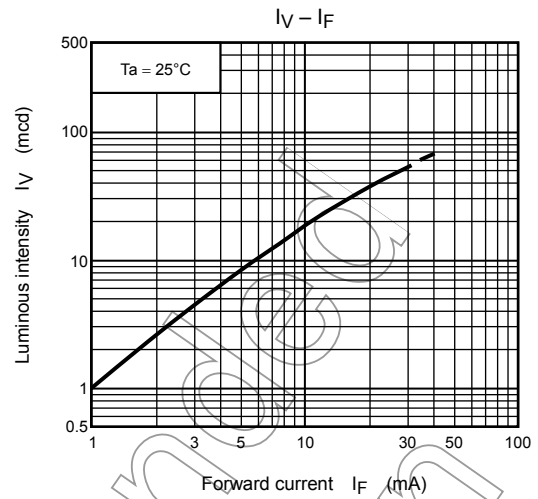
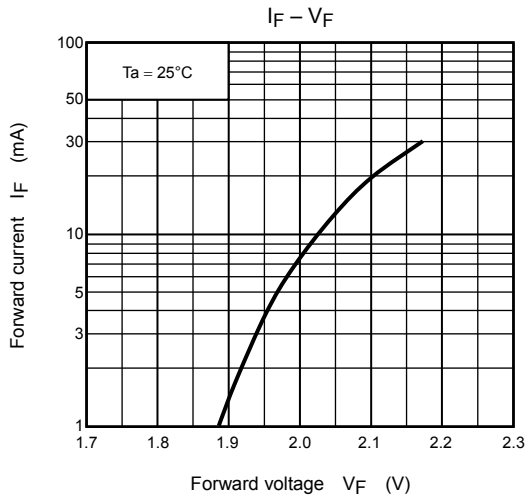
TLPGU53T(F)



TLPGU53C(F)



TLPGU53D(F)



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