

TOSHIBA InGaA/P LED

TLGU53T, TLGU53C, TLGU53D, TLPGU53T, TLPGU53C, TLPGU53D

Panel Circuit Indicator

Unit: mm

- 3 mm package (T1-3/4)
- InGaA/P technology
- All plastic mold type
 - TLGU53T, TLPGU53T : Transparent lens
 - TLGU53C, TLPGU53C : Colored, transparent lens
 - TLGU53D, TLPGU53D : 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 signbord, safety equipment, indicator

Line-up

Product Name	Color	Material
TLGU53T	Green	InGaA/P
TLGU53C	Green	
TLGU53D	Green	
TLPGU53T	Pure green	
TLPGU53C	Pure green	
TLPGU53D	Pure green	

JEDEC	—
JEITA	—
TOSHIBA	4-4E1A

Weight: 0.14 g

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	30	4	72	-40~100	-40~120
TLGU53C	30	4	72		
TLGU53D	30	4	72		
TLPGU53T	30	4	72		
TLPGU53C	30	4	72		
TLPGU53D	30	4	72		

Electrical and Optical Characteristics (Ta = 25°C)

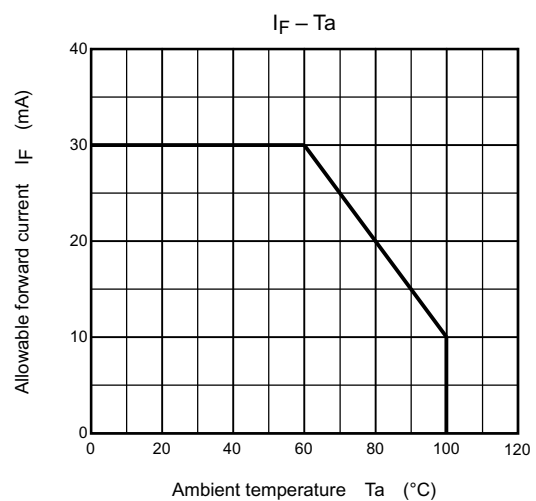
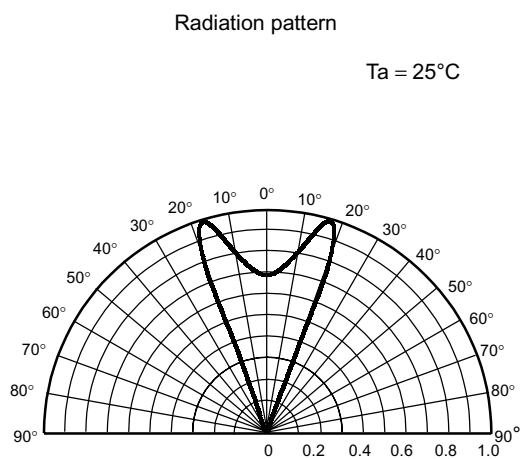
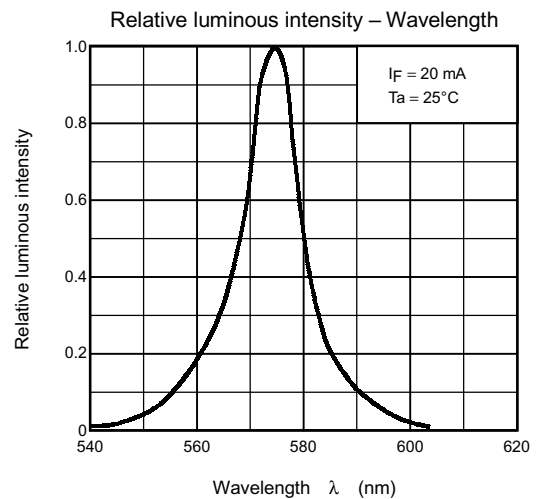
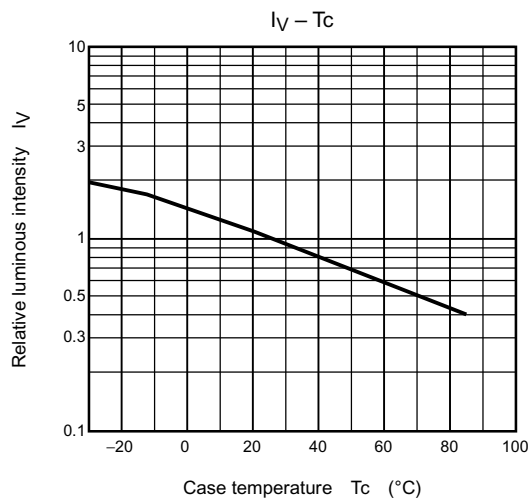
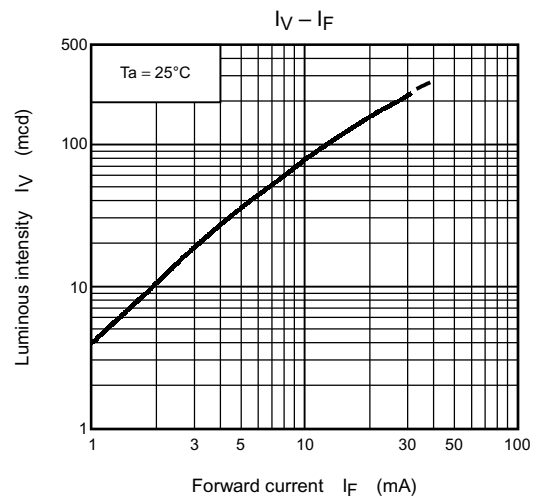
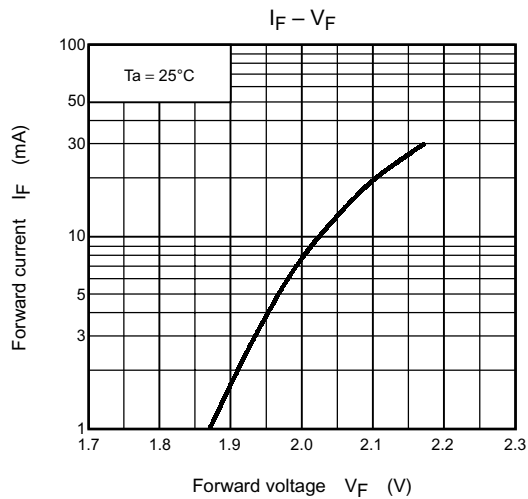
Product Name	Typ. Emission Wavelength				Luminous Intensity I _V			Forward Voltage V _F			Reverse Current I _R	
	λ _d	λ _p	Δλ	I _F	Min	Typ.	I _F	Typ.	Max	I _F	Max	V _R
TLGU53T	571	(574)	17	20	47.6	170	20	2.1	2.4	20	50	4
TLGU53C	571	(574)	17	20	47.6	150	20	2.1	2.4	20	50	4
TLGU53D	571	(574)	17	20	27.2	80	20	2.1	2.4	20	50	4
TLPGU53T	558	(562)	14	20	27.2	80	20	2.1	2.4	20	50	4
TLPGU53C	558	(562)	14	20	27.2	70	20	2.1	2.4	20	50	4
TLPGU53D	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

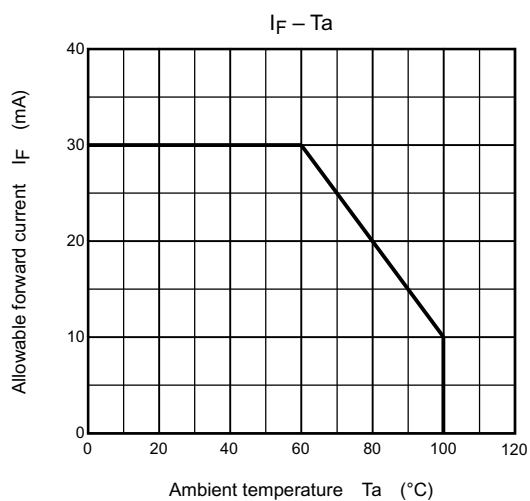
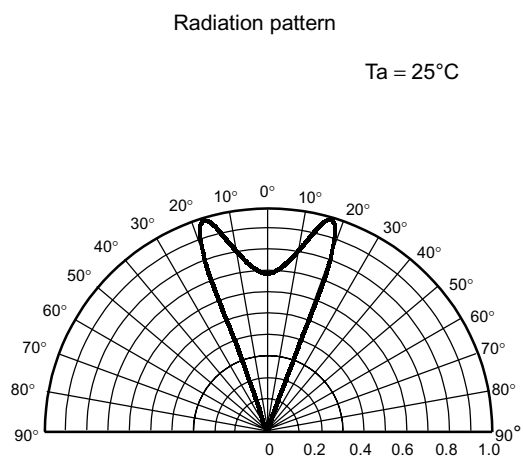
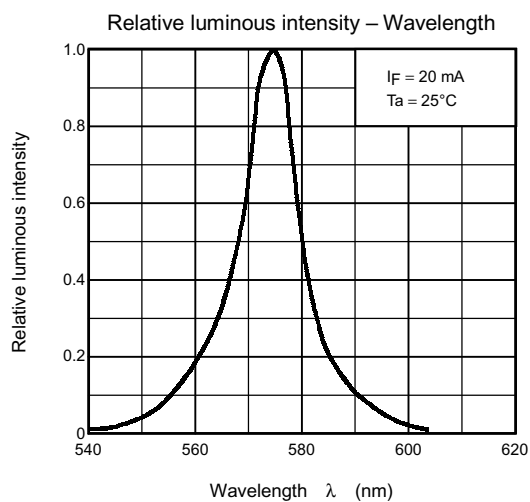
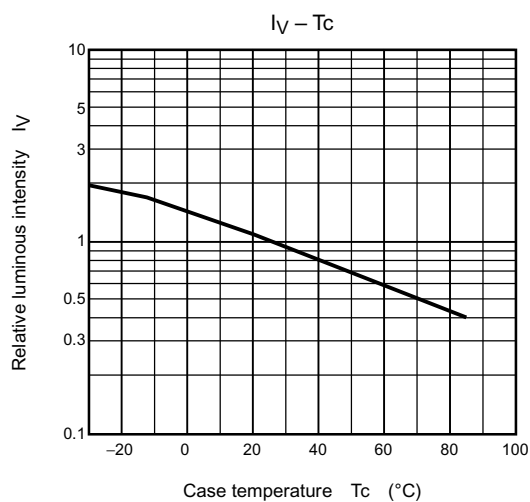
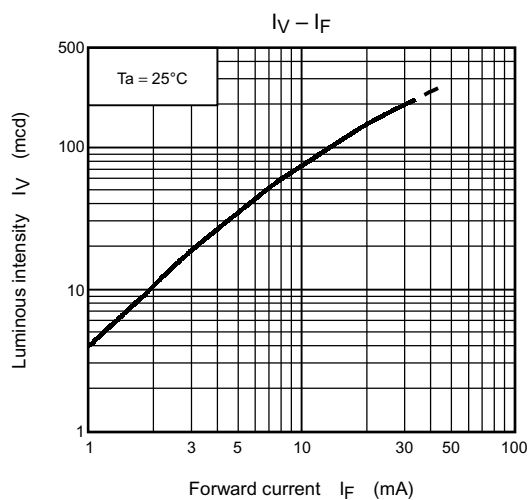
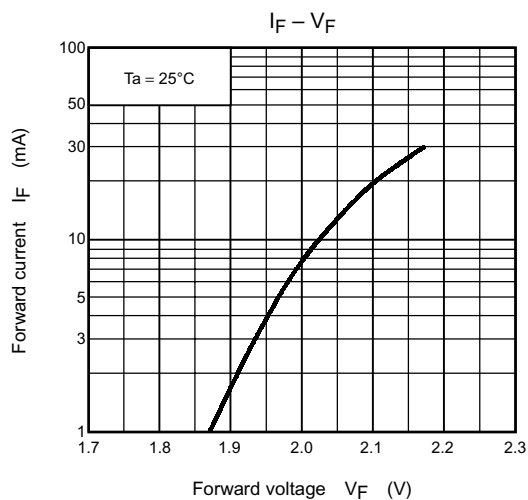
Please be careful of the following:

- Soldering temperature: 260°C max, soldering time: 3 s max
(soldering portion of lead: up to 2 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5 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.

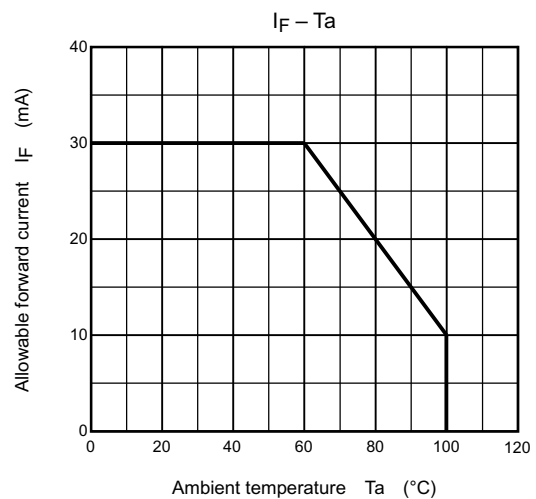
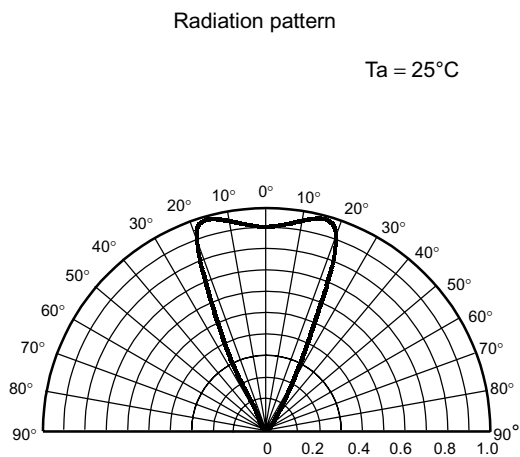
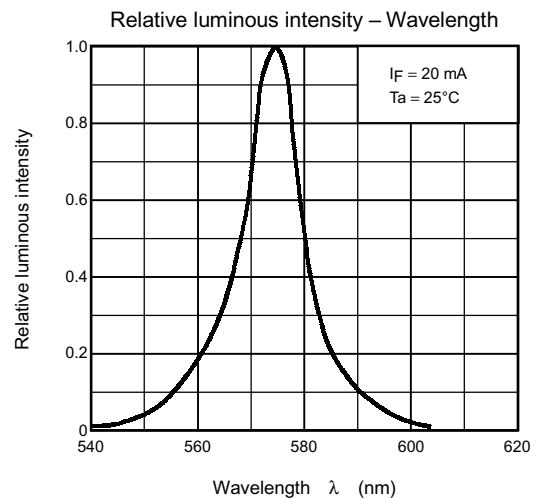
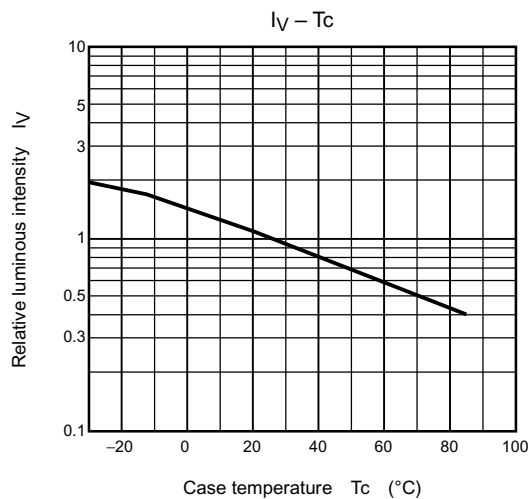
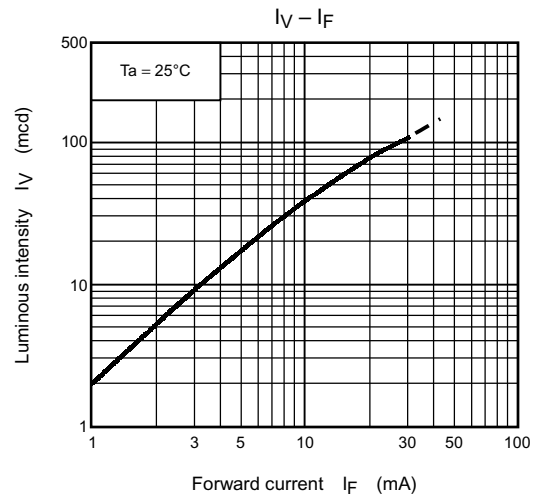
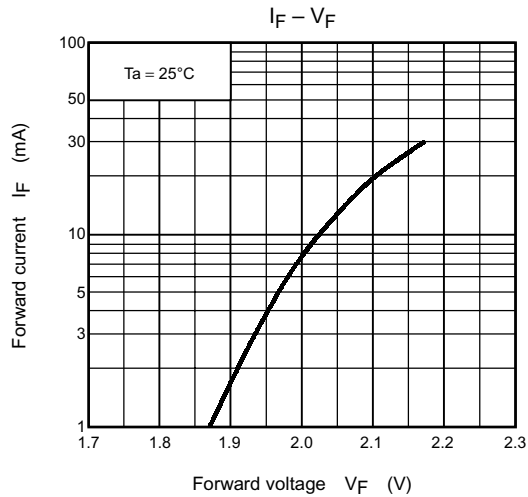
TLGU53T



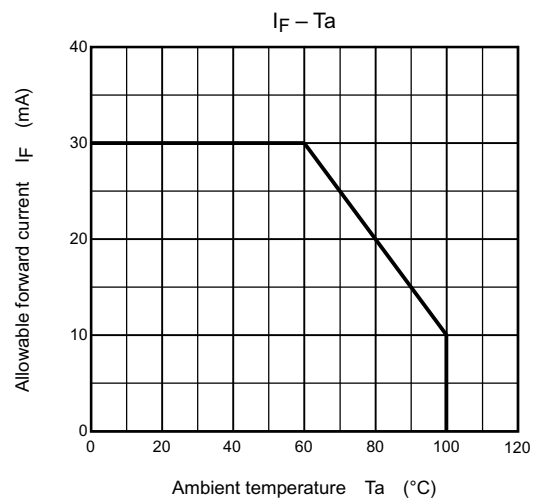
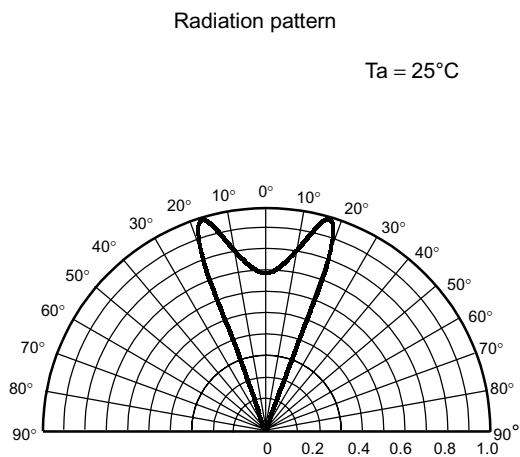
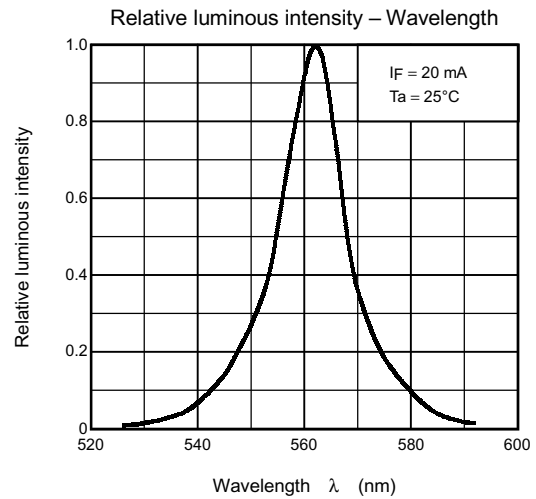
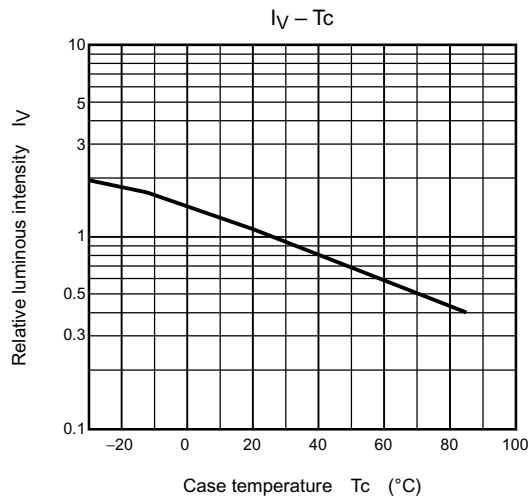
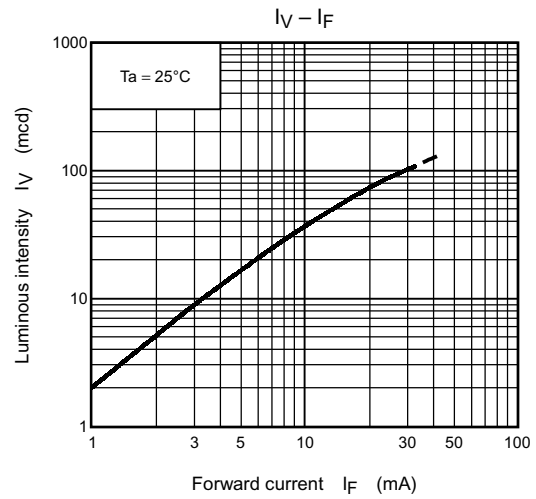
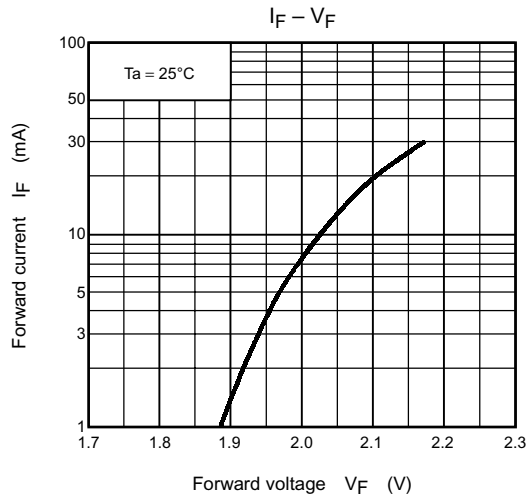
TLGU53C



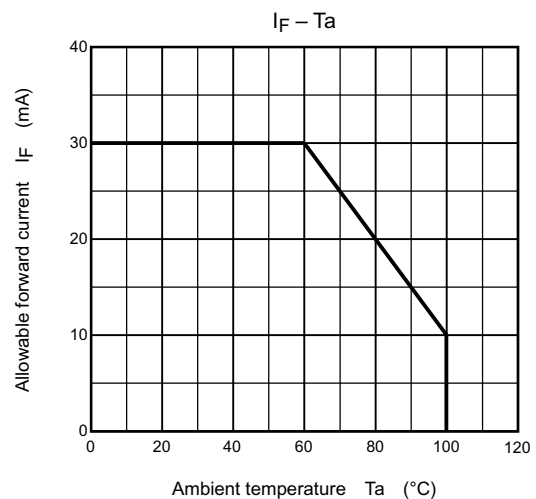
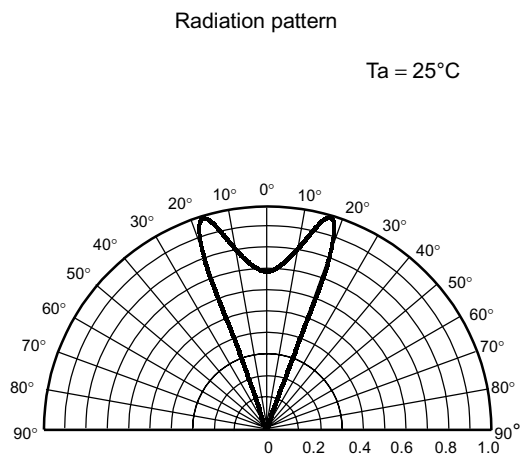
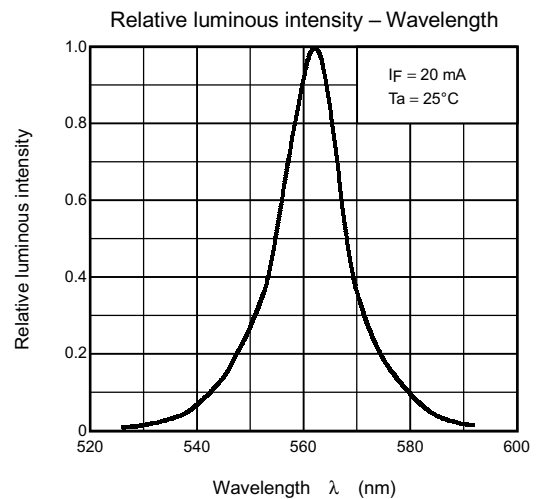
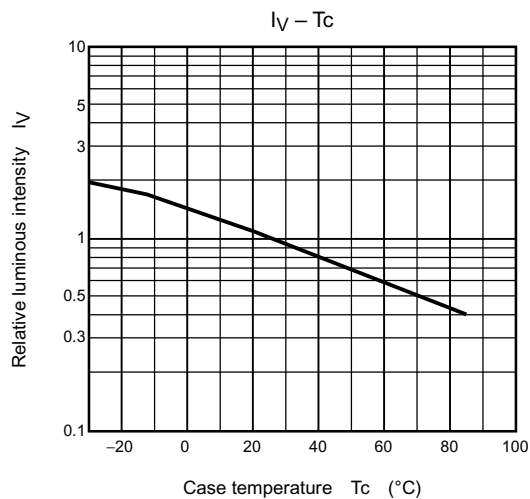
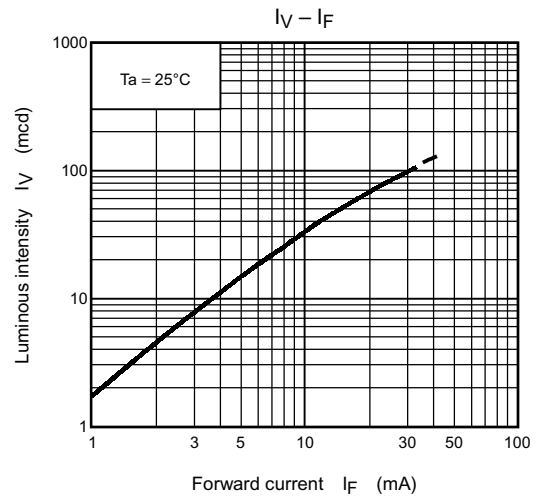
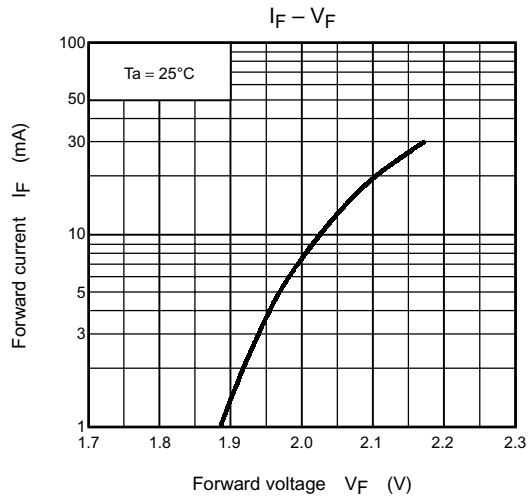
TLGU53D



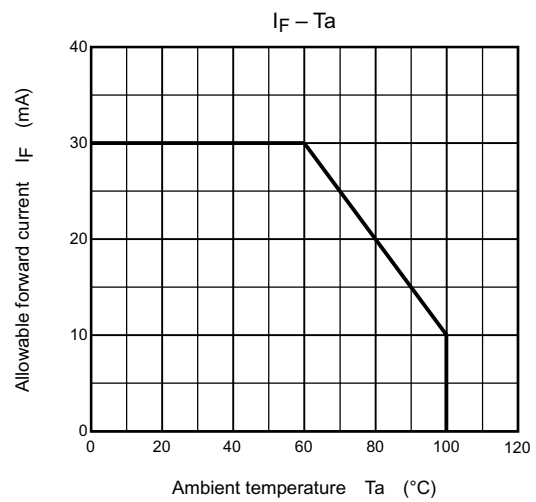
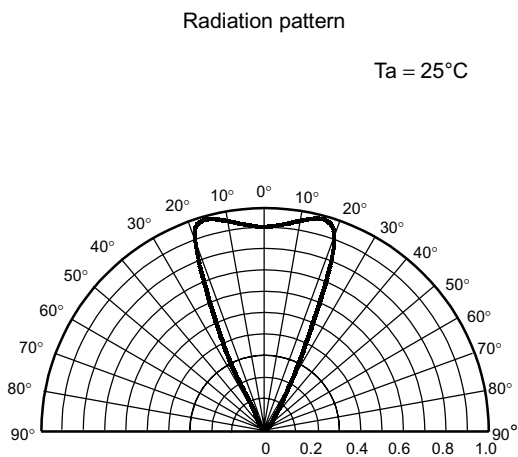
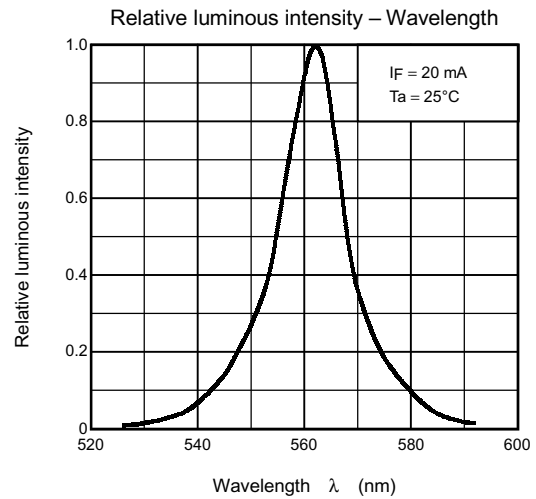
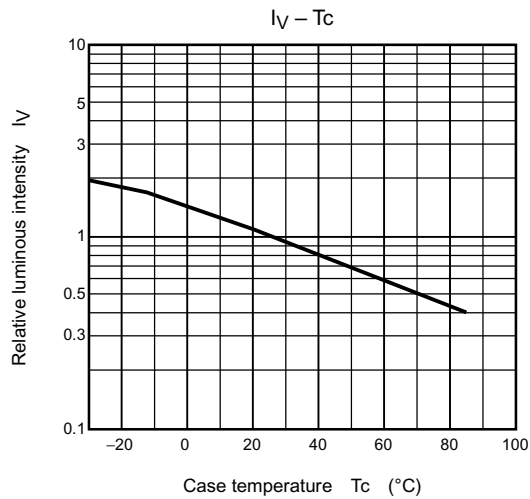
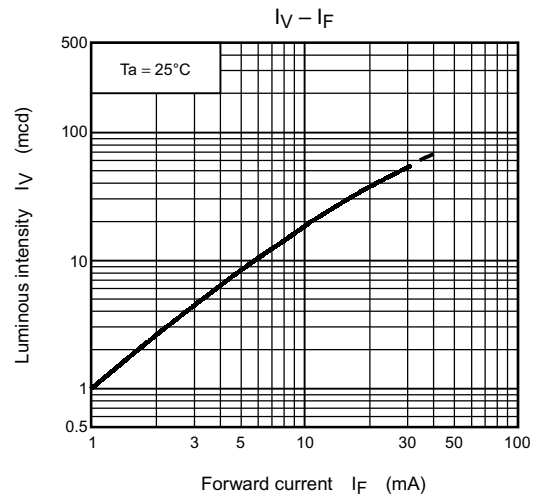
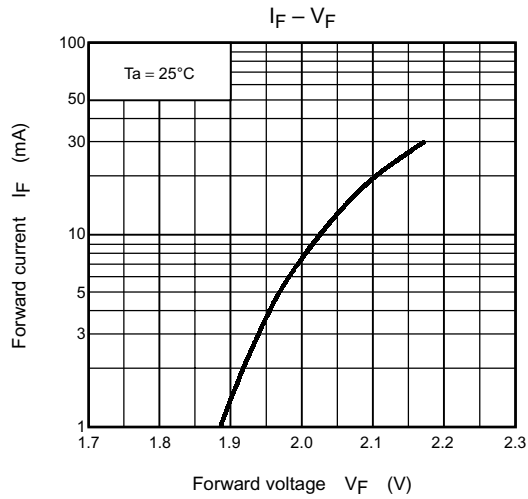
TLPGU53T



TLPGU53C



TLPGU53D



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