

TOSHIBA LED Lamp

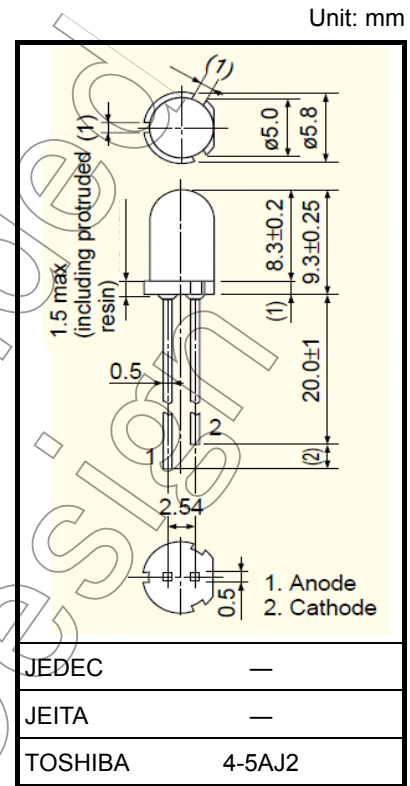
TLRE17TP(F),TLRME17TP(F),TLSE17TP(F), TLOE17TP(F),TLYE17TP(F)

Panel Circuit Indicator

- 5mm package
- InGaAlP technology
- All plastic mold type
- Transparent lens
- High intensity light emission
- Excellent low current light output
- Applications:
outdoor message signboards, safety equipment, automotive use, etc

Lineup

Product Name	Color	Material
TLRE17TP(F)	Red	InGaAlP
TLRME17TP(F)	Red	
TLSE17TP(F)	Red	
TLOE17TP(F)	Orange	
TLYE17TP(F)	Yellow	



Weight: 0.31 g(Typ.)

Absolute Maximum Ratings (Ta = 25°C)

Product Name	Forward Current IF (mA)	Reverse Voltage VR (V)	Power Dissipation PD (mW)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
TLRE17TP(F)	50	4	120	-40~100	-40~120
TLRME17TP(F)	50	4	120		
TLSE17TP(F)	50	4	120		
TLOE17TP(F)	50	4	120		
TLYE17TP(F)	50	4	120		

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
TLRE17TP(F)	630	(644)	20	20	476	1500	20	1.9	2.4	20	50	4
TLRME17TP(F)	626	(636)	23	20	850	2400	20	1.9	2.4	20	50	4
TLSE17TP(F)	613	(623)	20	20	850	3000	20	1.9	2.4	20	50	4
TLOE17TP(F)	605	(612)	20	20	1530	4500	20	2.0	2.4	20	50	4
TLYE17TP(F)	587	(590)	17	20	850	3000	20	2.0	2.4	20	50	4
Unit	nm			mA	mcd		mA	V	mA		μA	V

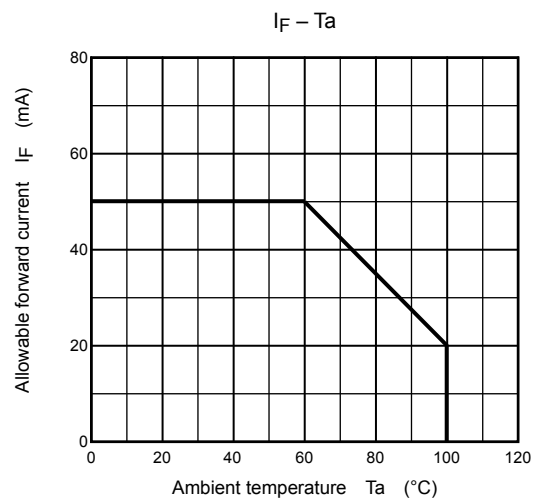
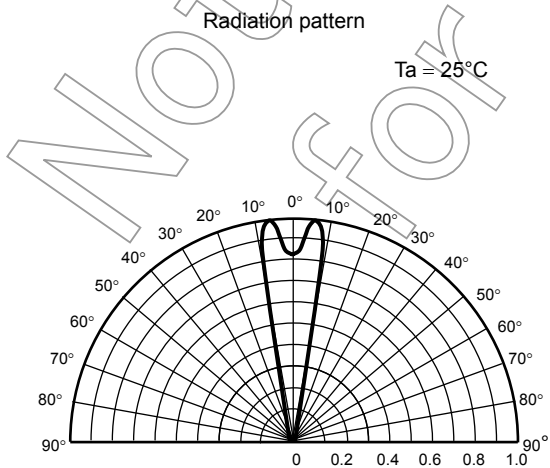
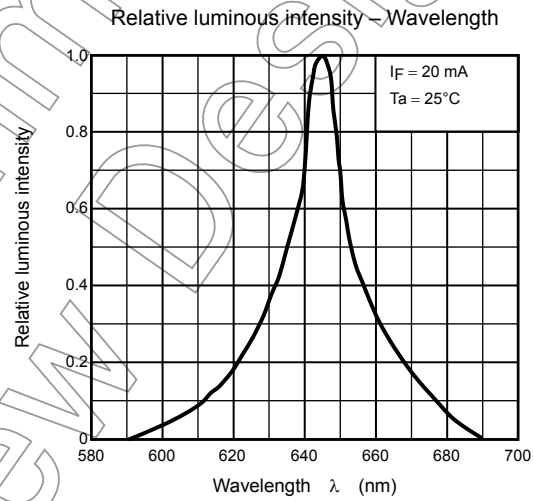
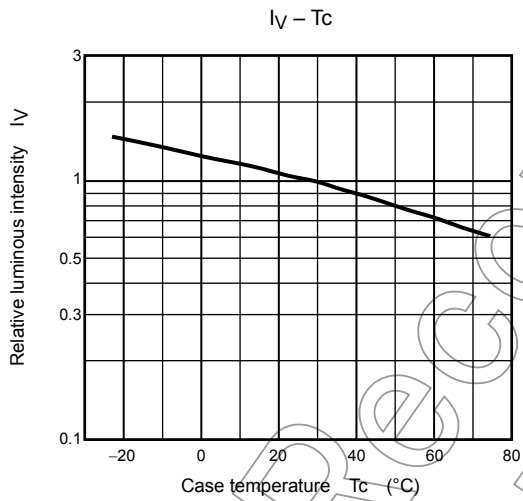
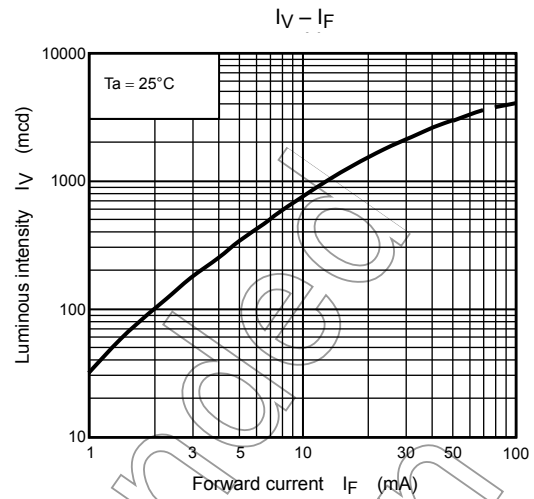
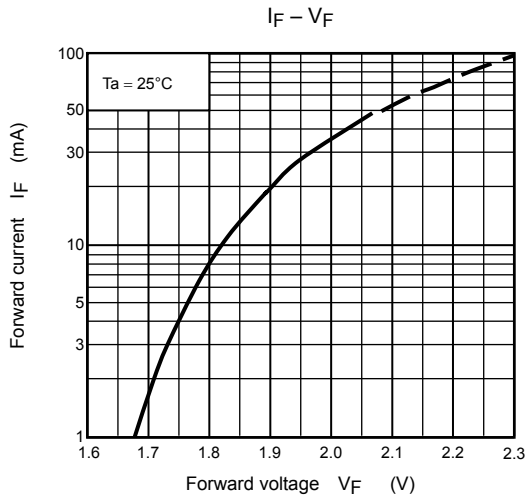
Precautions

Please be careful of the following:

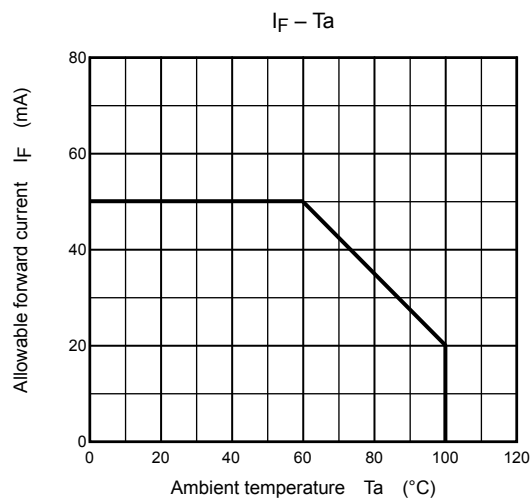
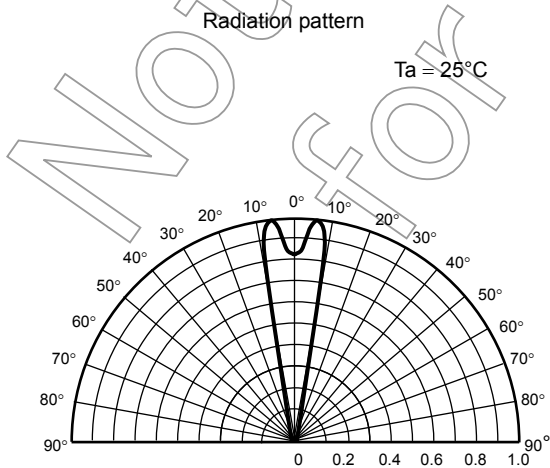
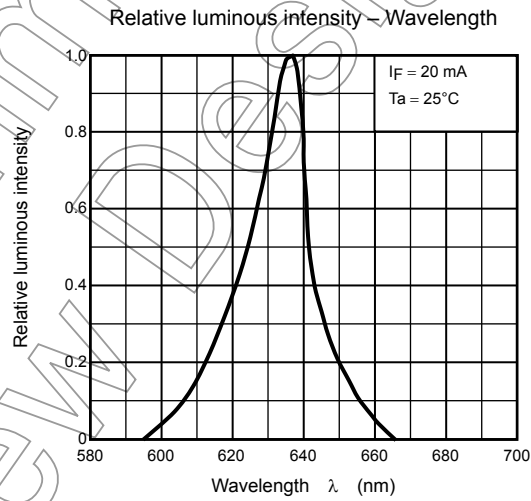
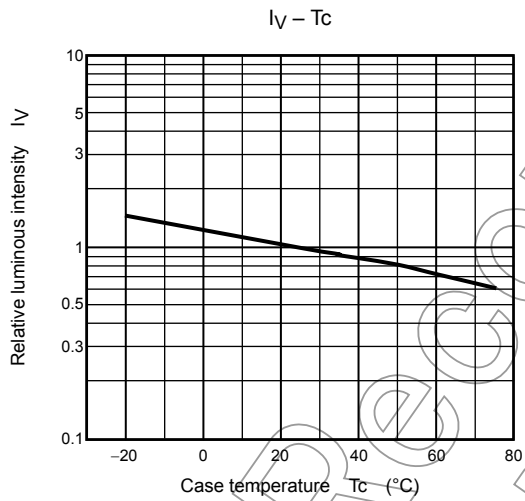
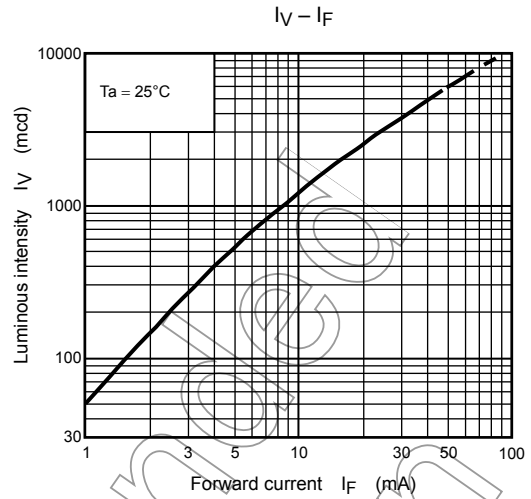
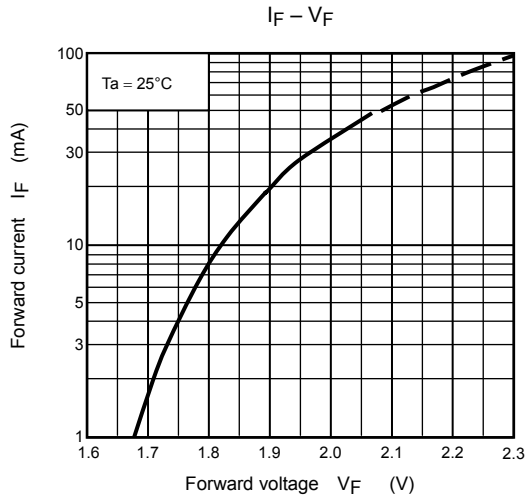
- Soldering temperature: 260°C max, soldering time: 3 s max (soldering portion of lead: up to 1.6 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 1.6 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.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

Not Recommended for New Design

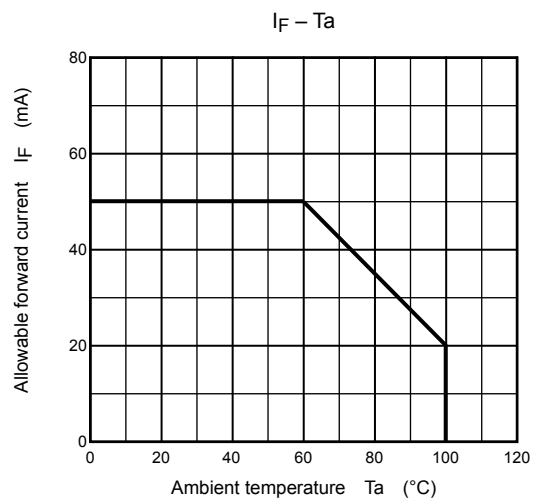
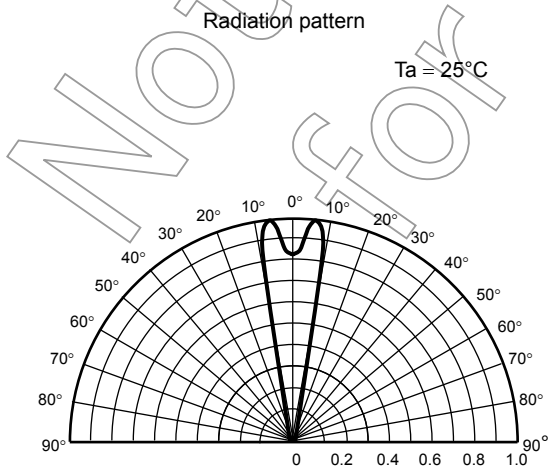
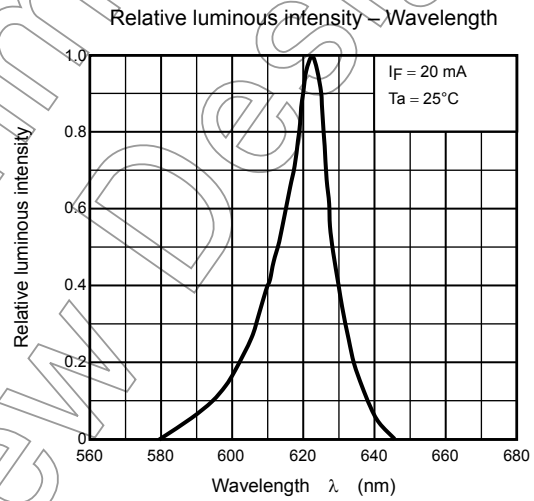
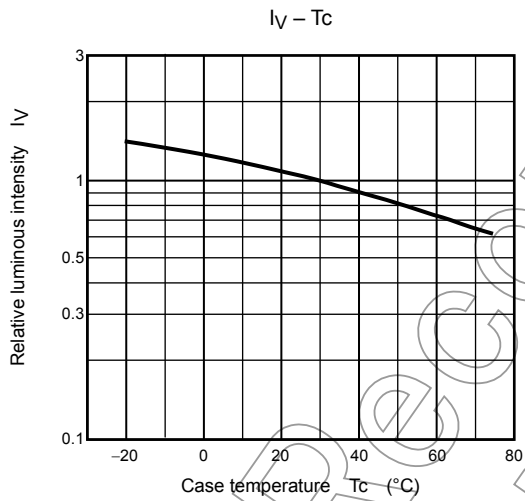
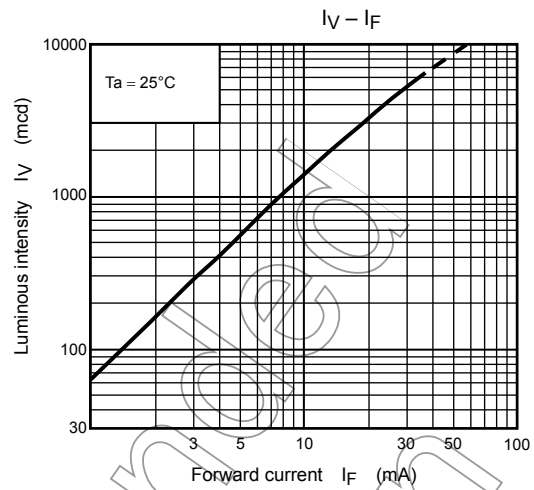
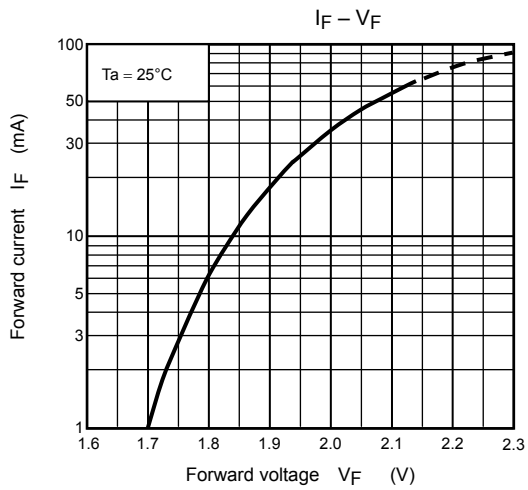
TLRE17TP(F)



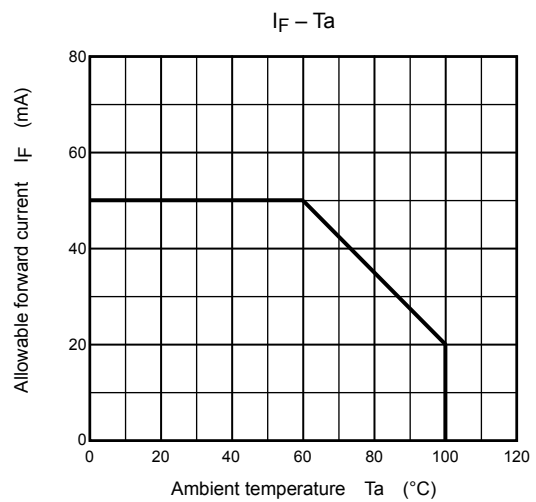
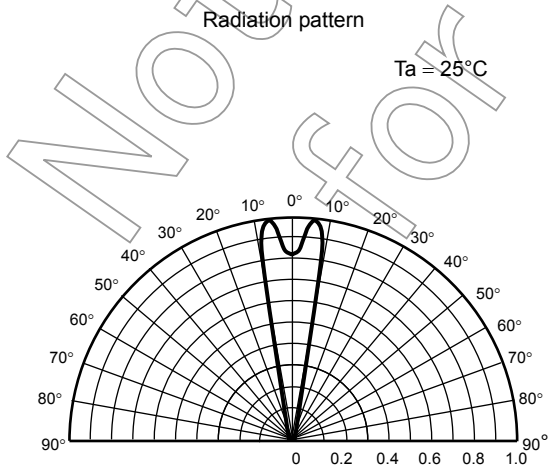
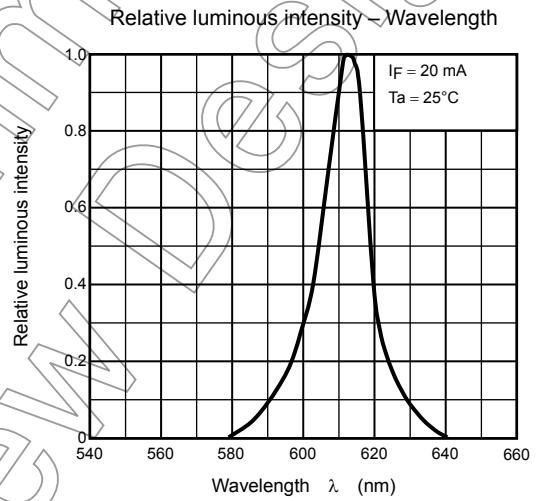
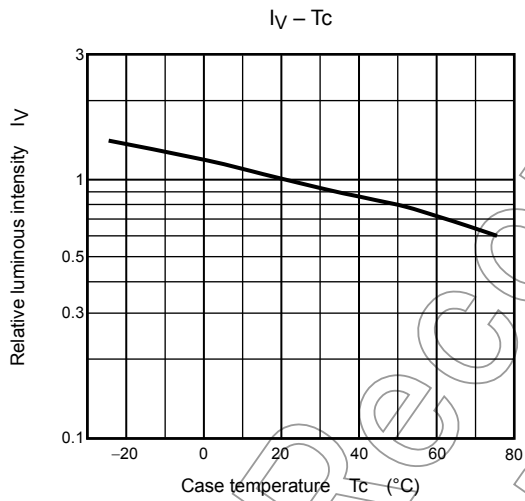
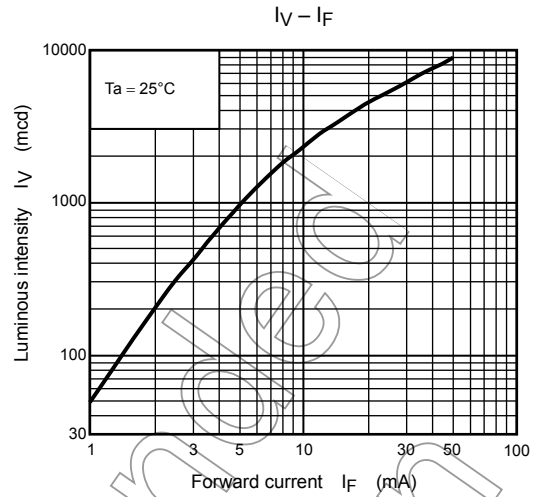
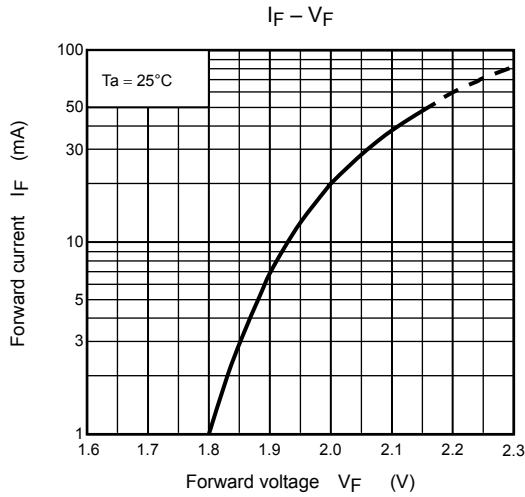
TLRME17TP(F)



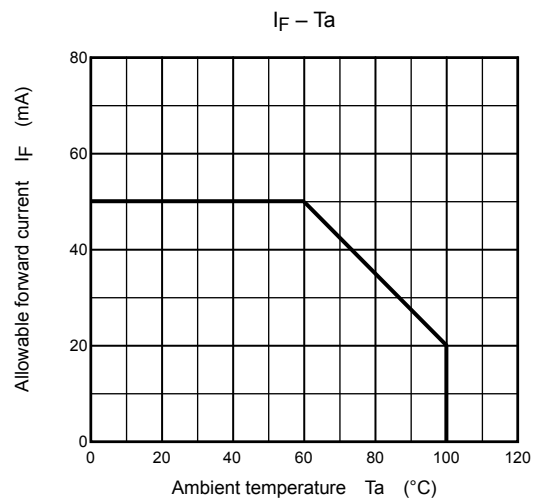
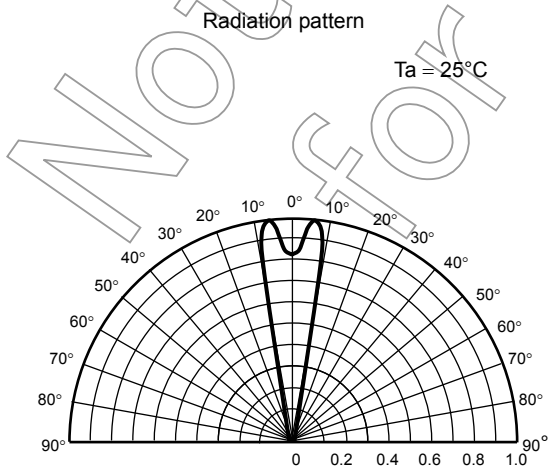
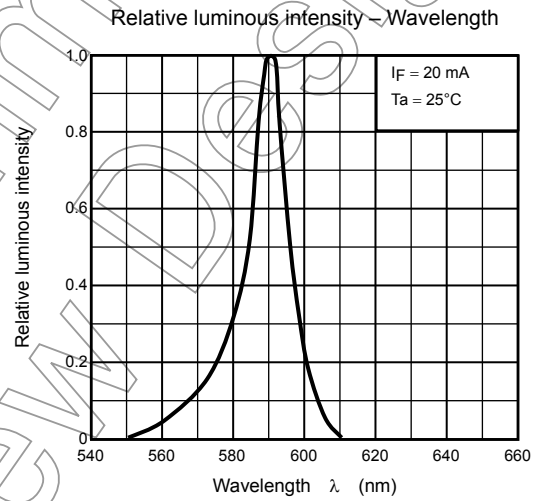
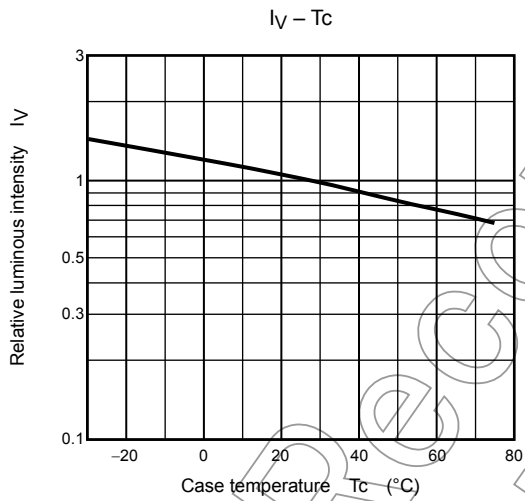
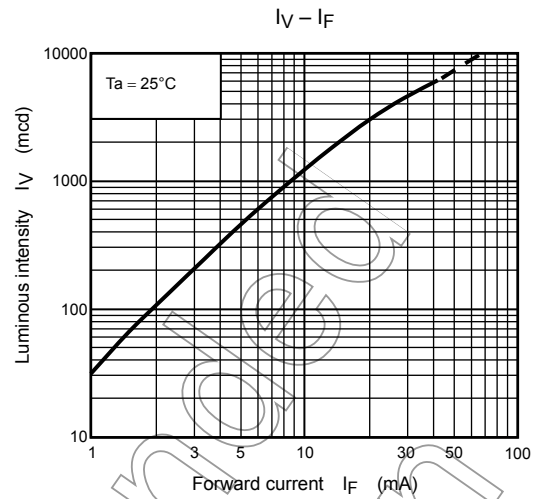
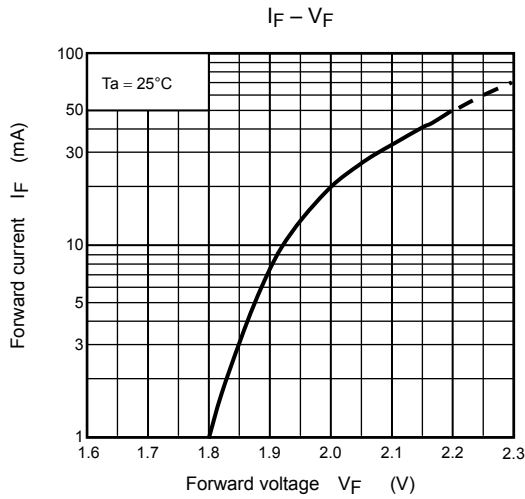
TLSE17TP(F)



TLOE17TP(F)



TLYE17TP(F)



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