

TOSHIBA LED Lamp

TLRE16TP(F),TLRME16TP(F), TLSE16TP(F),TLOE16TP(F),TLYE16TP(F)

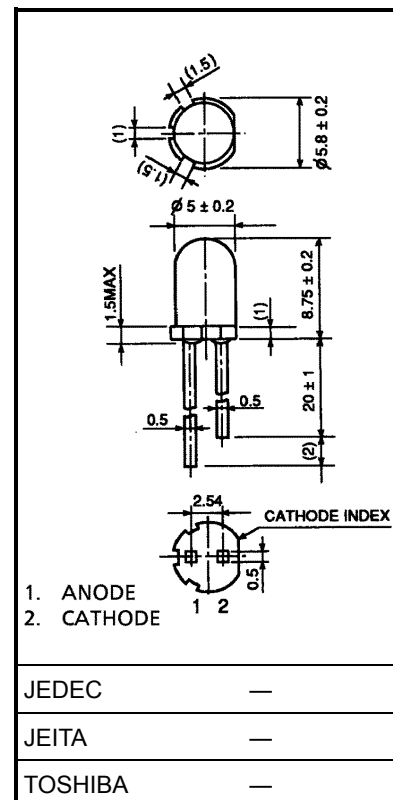
Panel Circuit Indicator

Unit: mm

- Lead(Pb)-free products (lead: Sn-Ag-Cu)
- 5 mm 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
TLRE16TP(F)	Red	InGaAlP
TLRME16TP(F)	Red	
TLSE16TP(F)	Red	
TLOE16TP(F)	Orange	
TLYE16TP(F)	Yellow	



Maximum Ratings (Ta = 25°C)

Weight: 0.31 g

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)
TLRE16TP(F)	50	4	120	-40~100	-40~120
TLRME16TP(F)	50	4	120		
TLSE16TP(F)	50	4	120		
TLOE16TP(F)	50	4	120		
TLYE16TP(F)	50	4	120		

Electrical and Optical Characteristics (Ta = 25°C)

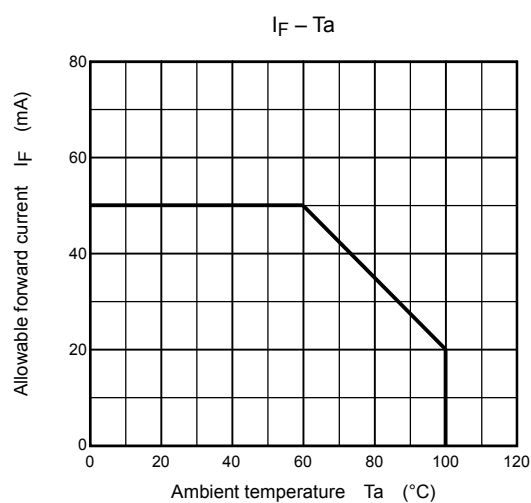
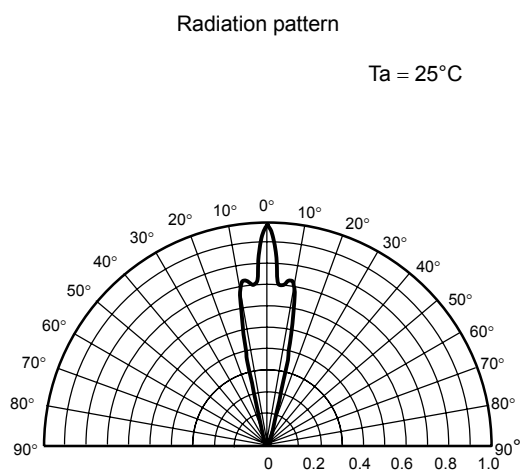
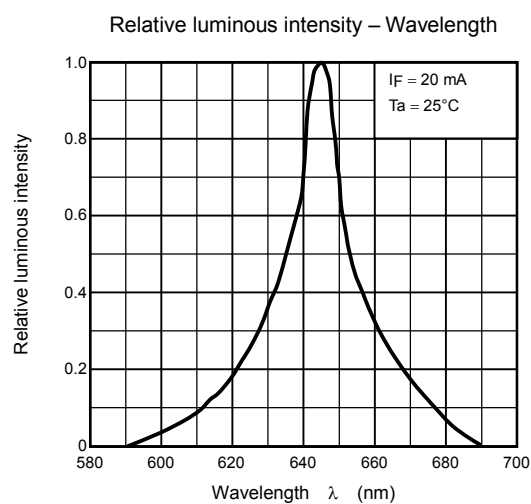
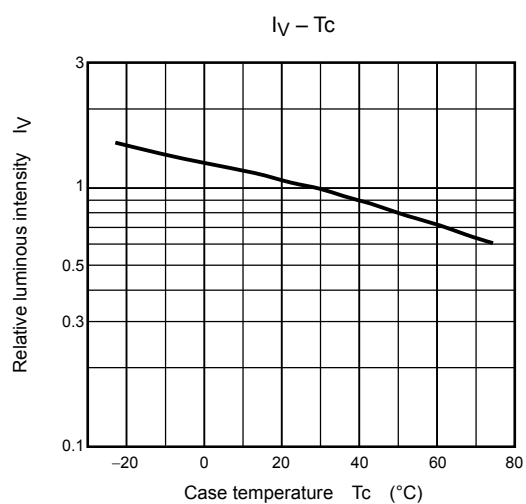
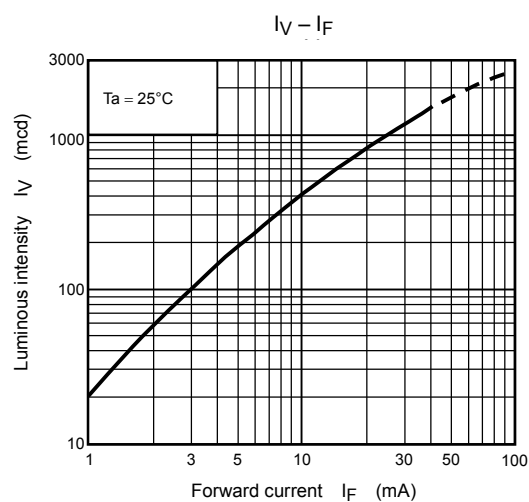
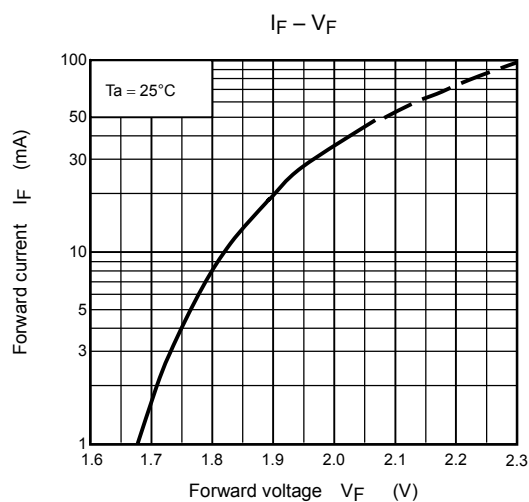
Product Name	Typ. Emission Wavelength				Luminous Intensity I _V			Forward Voltage V _F			Reverse Current I _R	
	λ _d	λ _p	Δλ	I _F	Min	Typ.	I _F	Typ.	Max	I _F	Max	V _R
TLRE16TP(F)	630	(644)	20	20	272	800	20	1.9	2.4	20	50	4
TLRME16TP(F)	626	(636)	23	20	272	1200	20	1.9	2.4	20	50	4
TLSE16TP(F)	613	(623)	20	20	476	1500	20	1.9	2.4	20	50	4
TLOE16TP(F)	605	(612)	20	20	850	2000	20	2.0	2.4	20	50	4
TLYE16TP(F)	587	(590)	17	20	476	1500	20	2.0	2.4	20	50	4
Unit	nm			mA	mcd		mA	V		mA	μA	V

Precautions

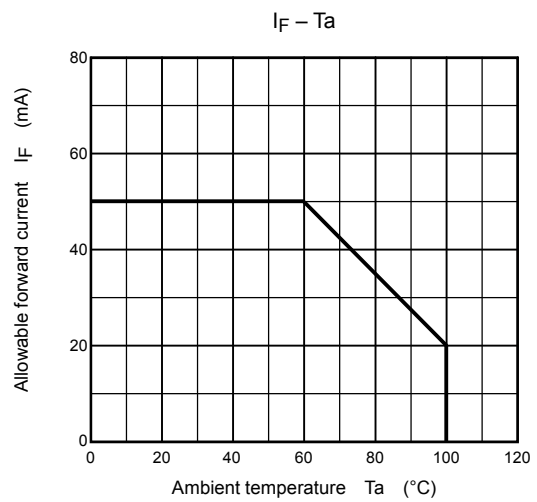
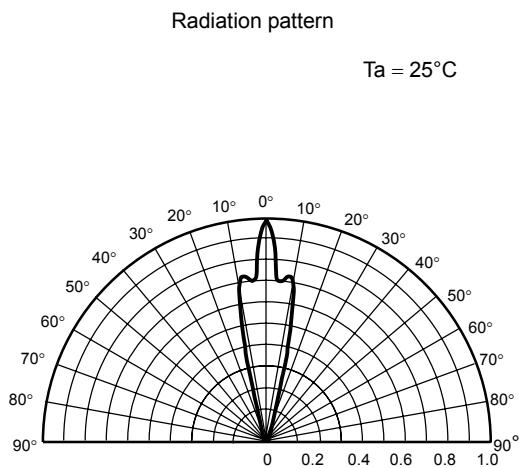
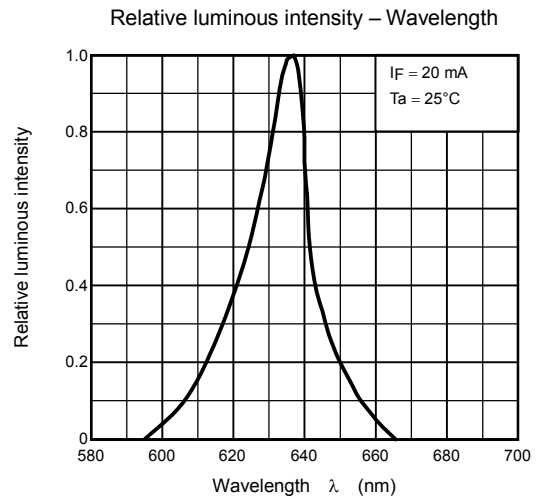
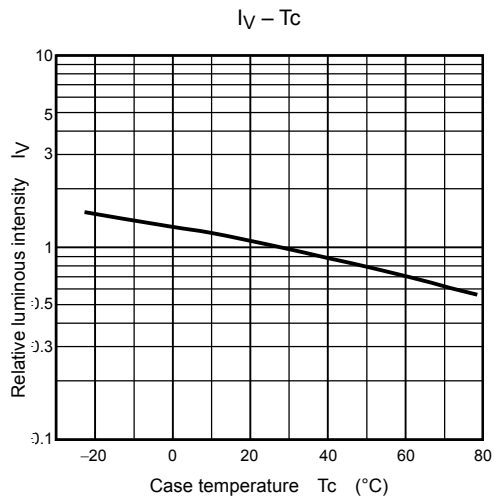
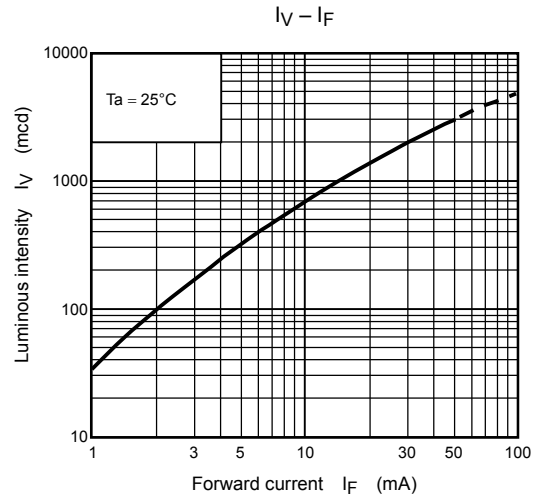
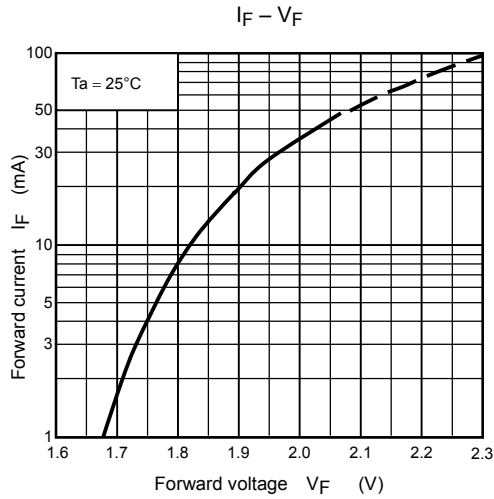
Please be careful of the following:

- Soldering temperature: 260°C max, soldering time: 3 s max
(soldering portion of lead: up to 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.

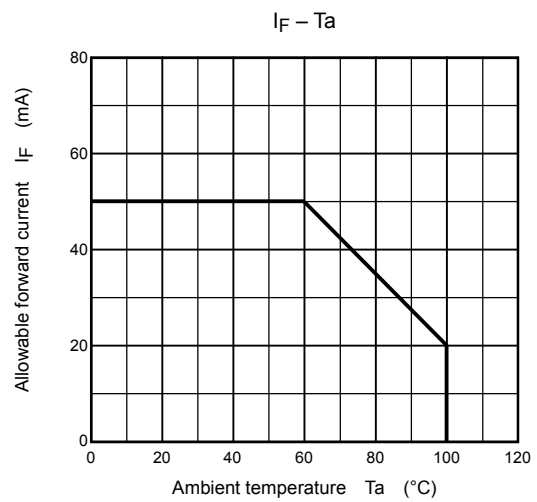
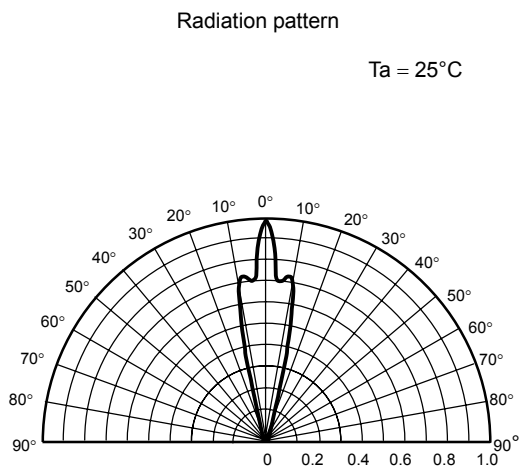
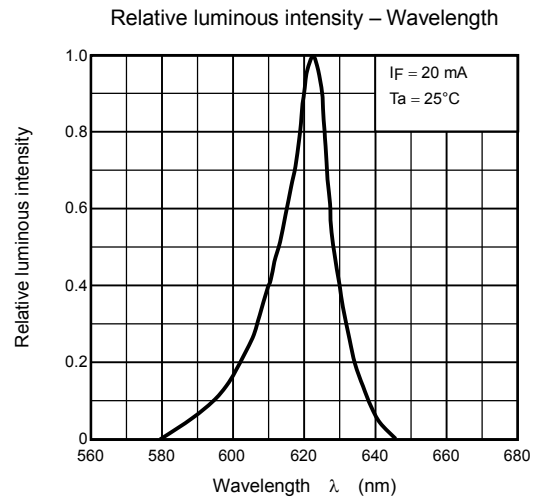
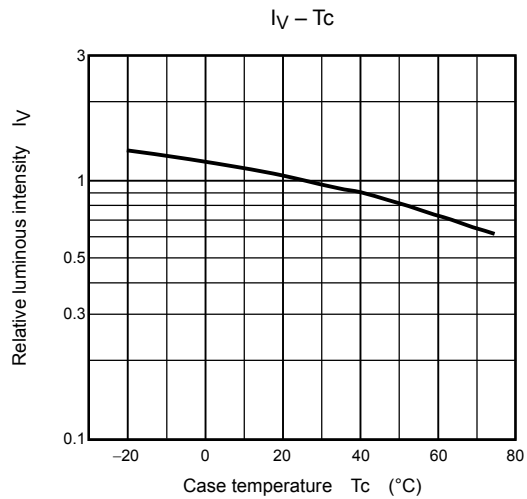
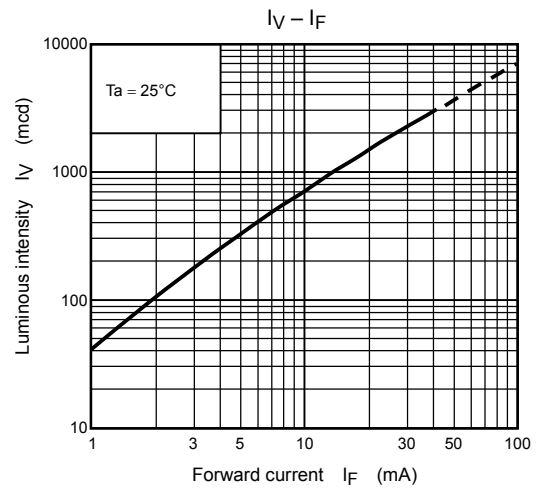
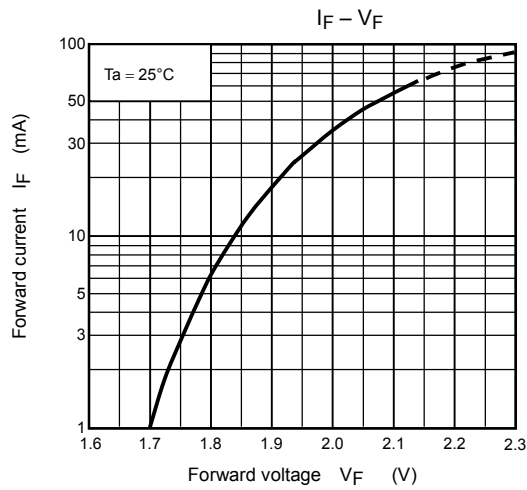
TLRE16TP(F)



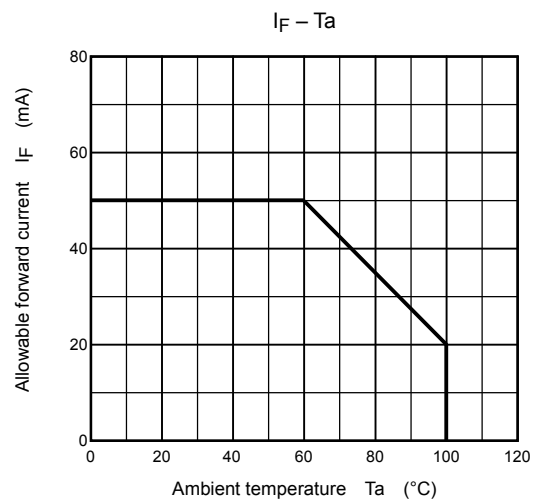
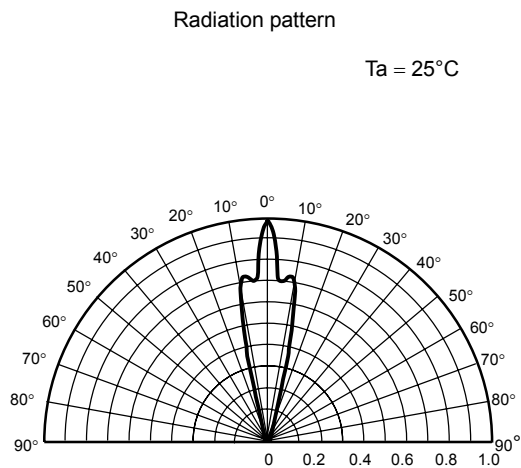
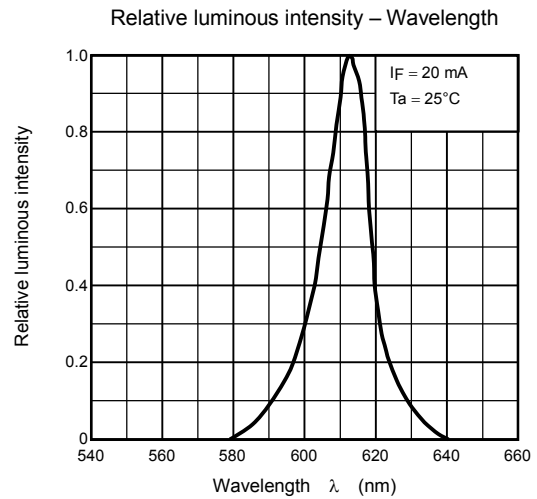
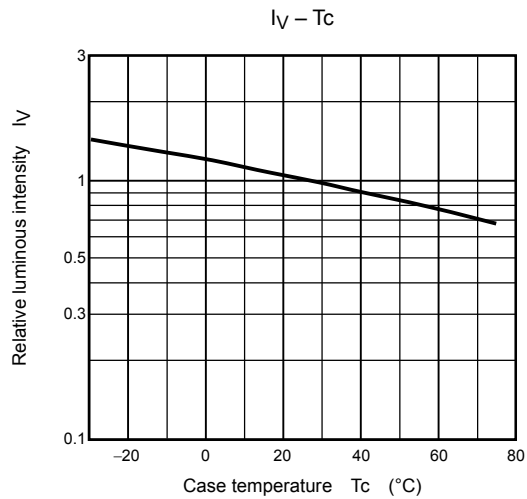
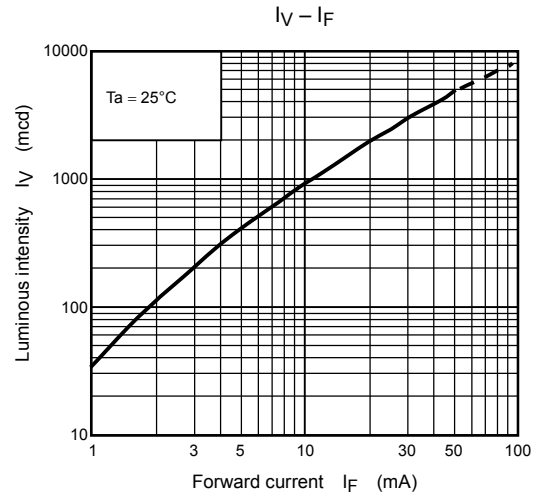
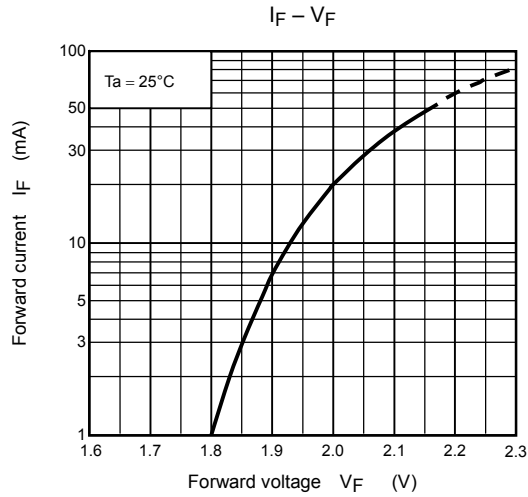
TLRME16TP(F)



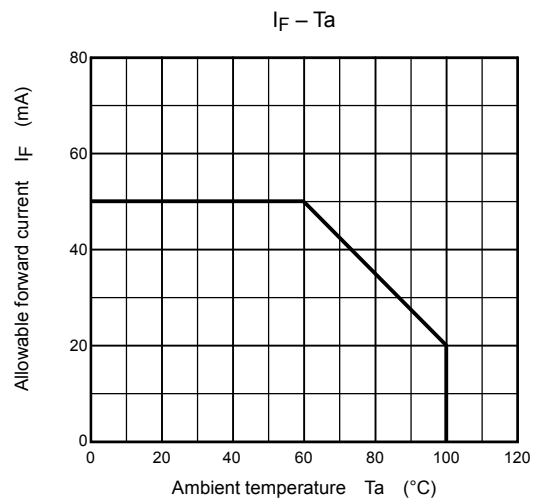
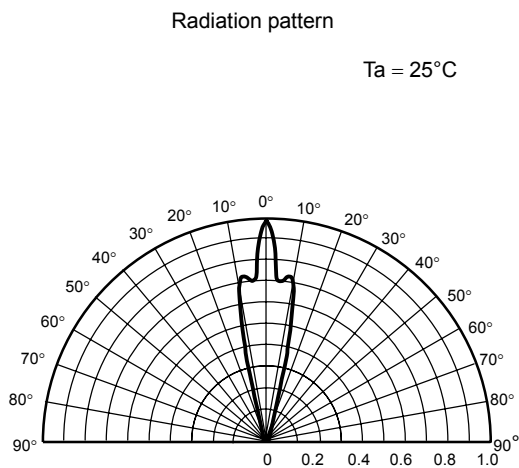
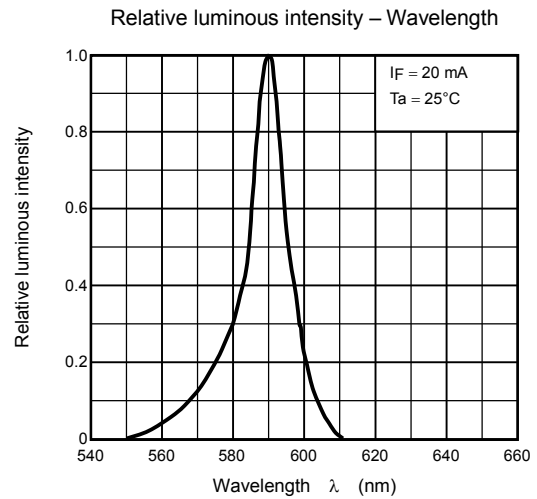
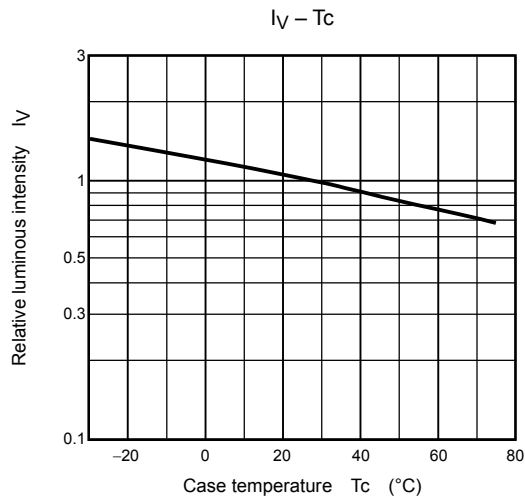
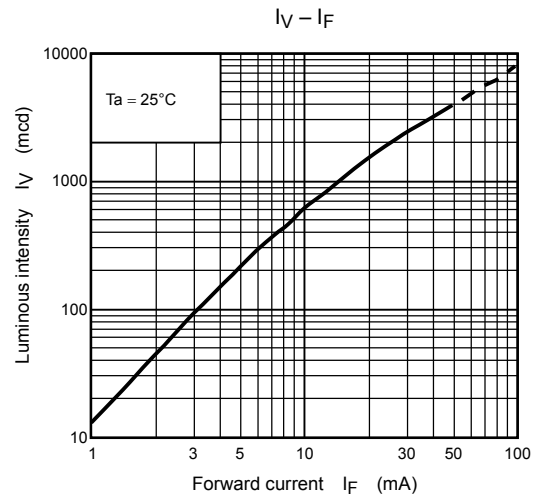
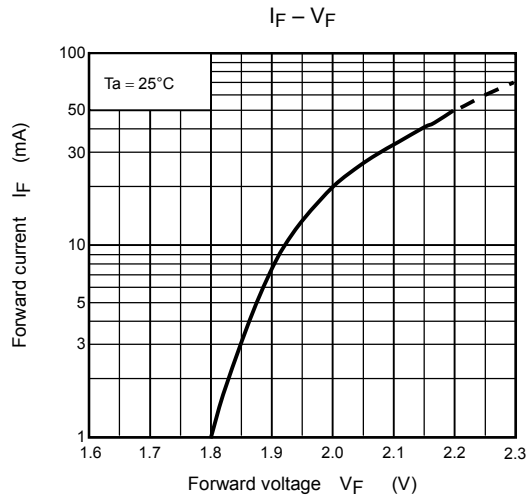
TLSE16TP(F)



TLOE16TP(F)



TLYE16TP(F)



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