

**TLRE16TP,TLRME16TP,TLSE16TP,TLOE16TP,TLYE16TP**

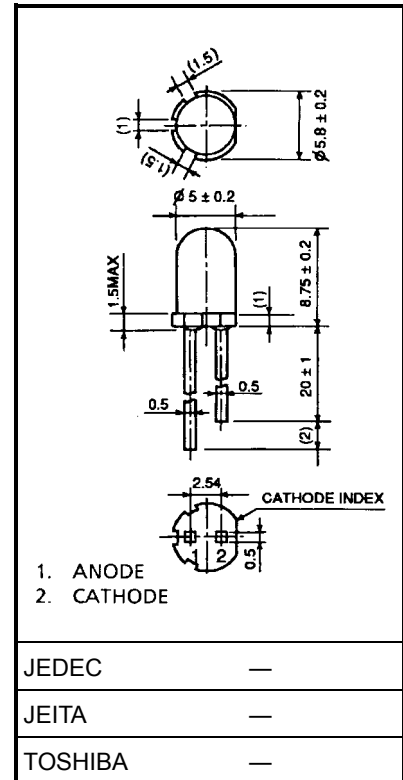
Panel Circuit Indicator

Unit: mm

- 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

**Line-Up**

Product Name	Color	Material
TLRE16TP	Red	InGaAlP
TLRME16TP	Red	
TLSE16TP	Red	
TLOE16TP	Orange	
TLYE16TP	Yellow	



Weight: 0.31 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)
TLRE16TP	50	4	120	-40~100	-40~120
TLRME16TP	50	4	120		
TLSE16TP	50	4	120		
TLOE16TP	50	4	120		
TLYE16TP	50	4	120		

**Electrical and Optical Characteristics (Ta = 25°C)**

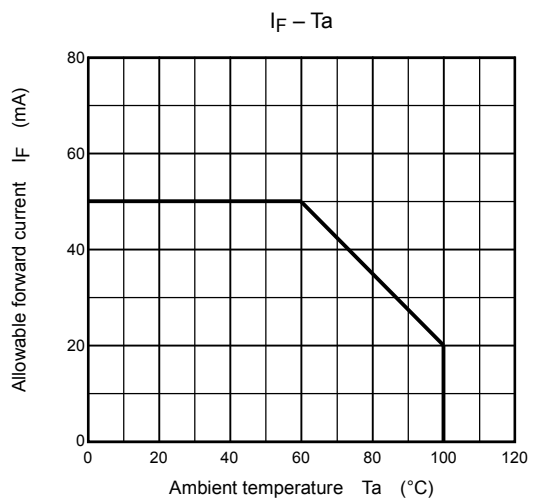
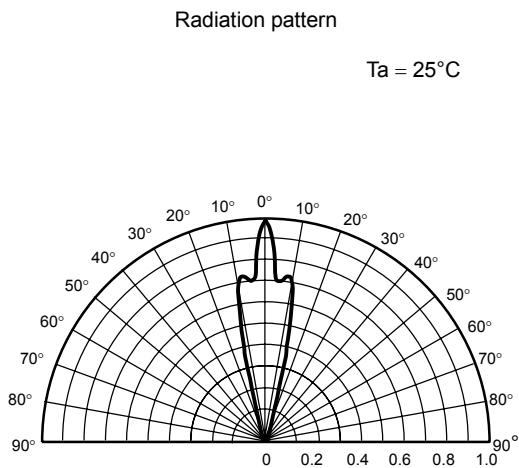
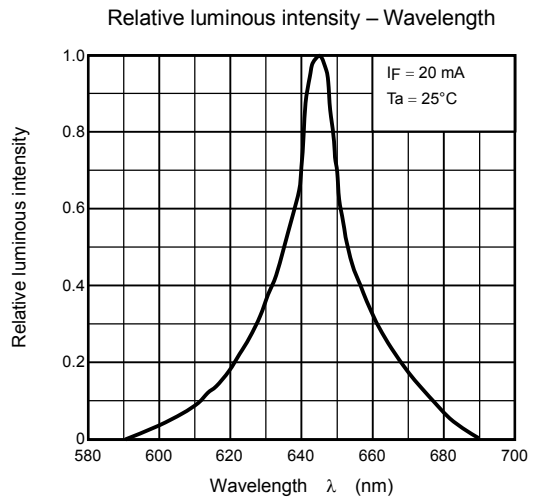
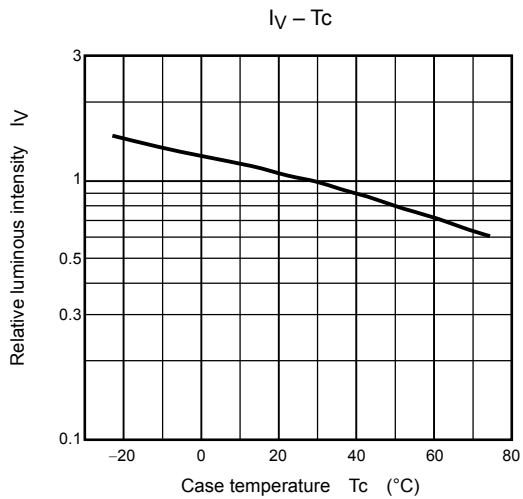
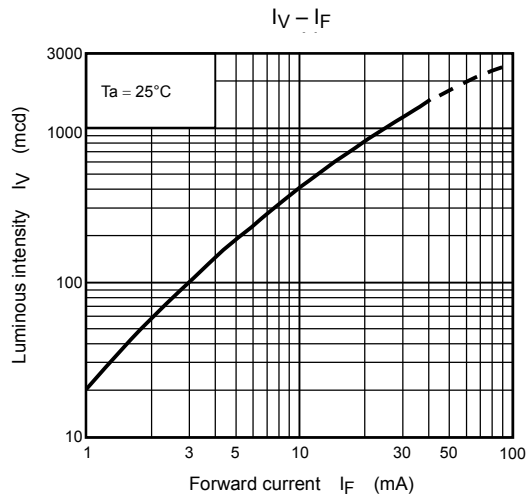
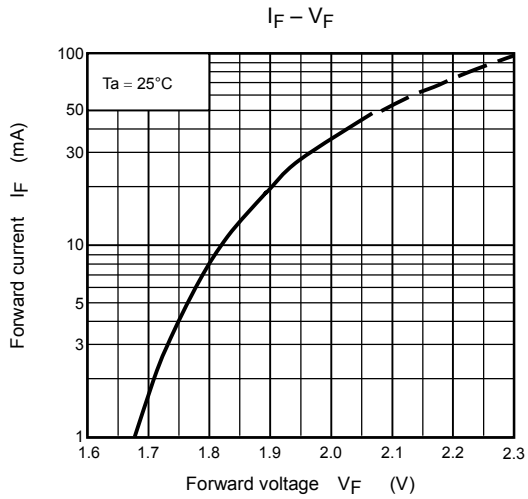
Product Name	Typ. Emission Wavelength				Luminous Intensity I <sub>V</sub>			Forward Voltage V <sub>F</sub>			Reverse Current I <sub>R</sub>	
	λ <sub>d</sub>	λ <sub>p</sub>	Δλ	I <sub>F</sub>	Min	Typ.	I <sub>F</sub>	Typ.	Max	I <sub>F</sub>	Max	V <sub>R</sub>
TLRE16TP	630	(644)	20	20	272	800	20	1.9	2.4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

**Precautions**

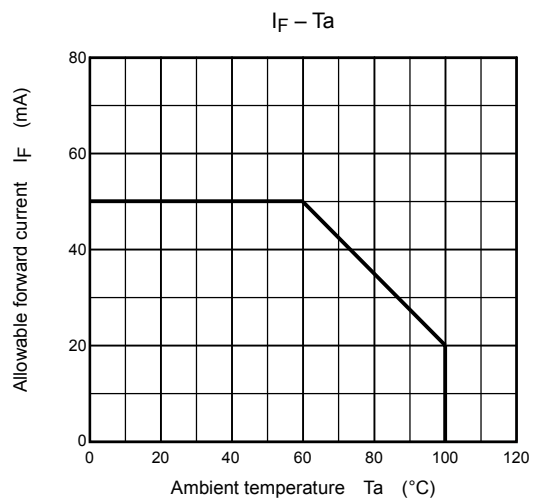
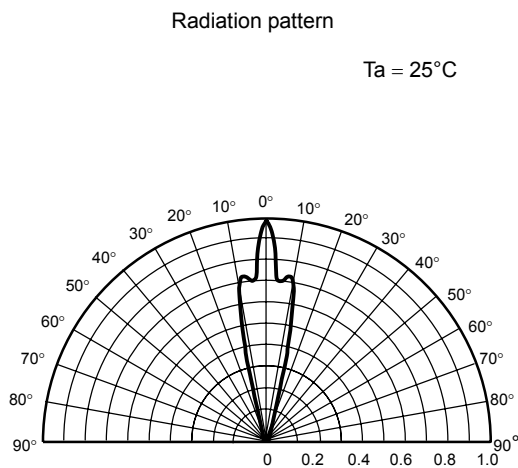
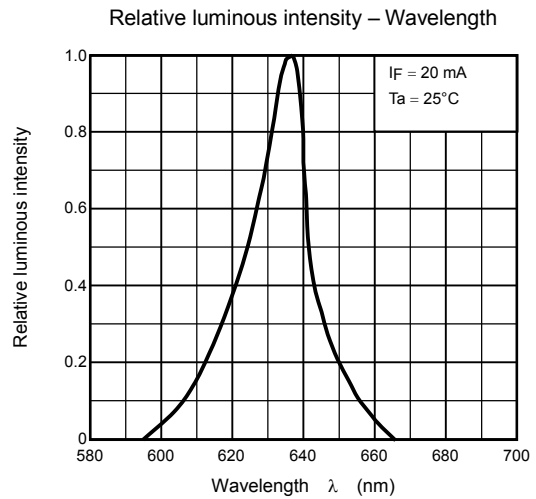
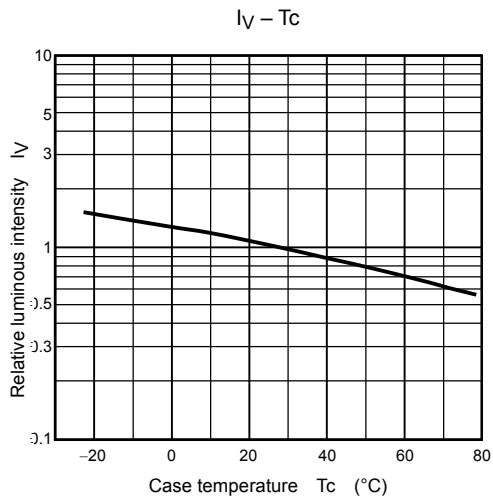
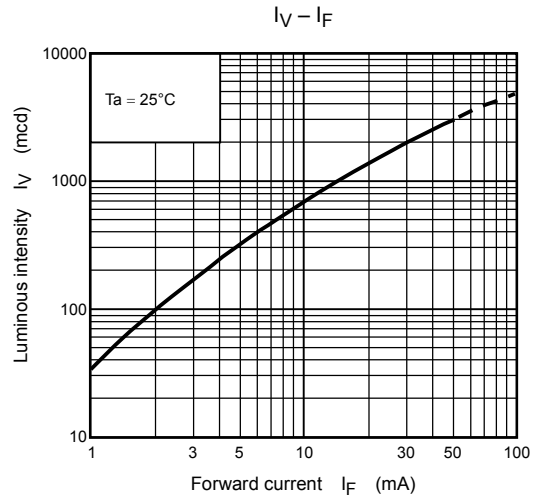
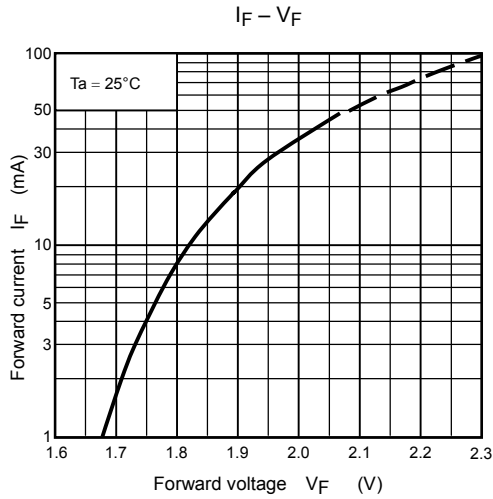
Please be careful of the following:

- 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.

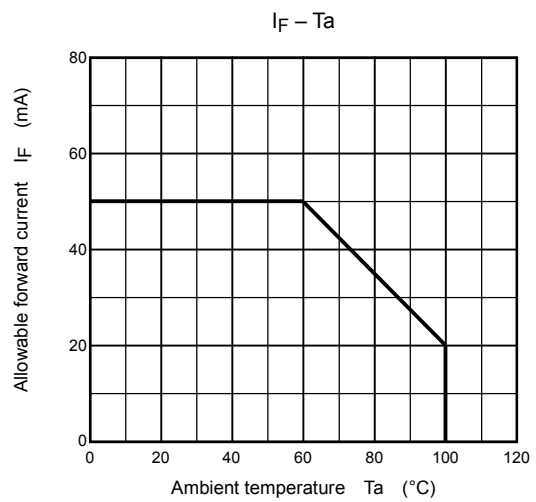
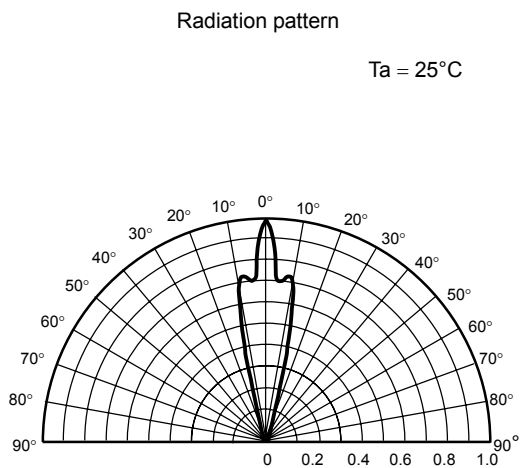
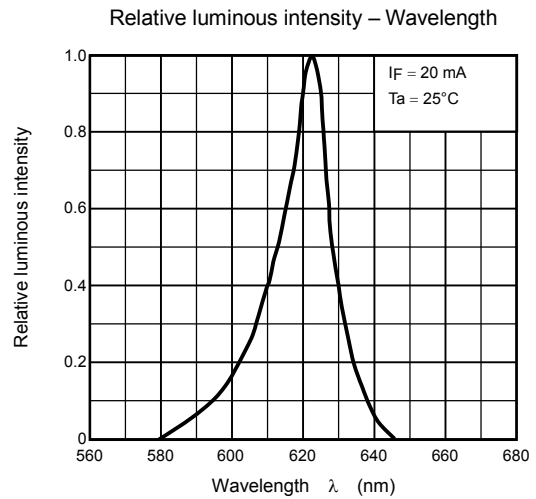
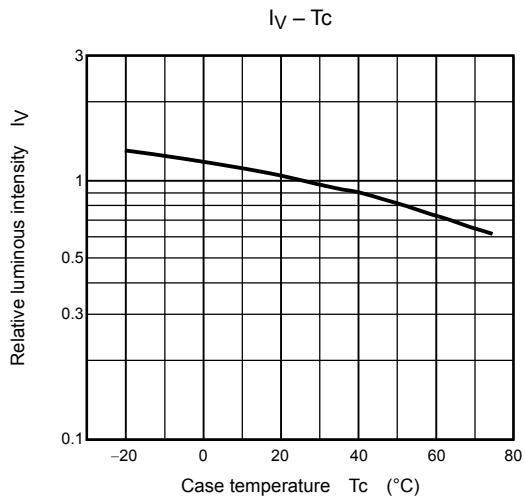
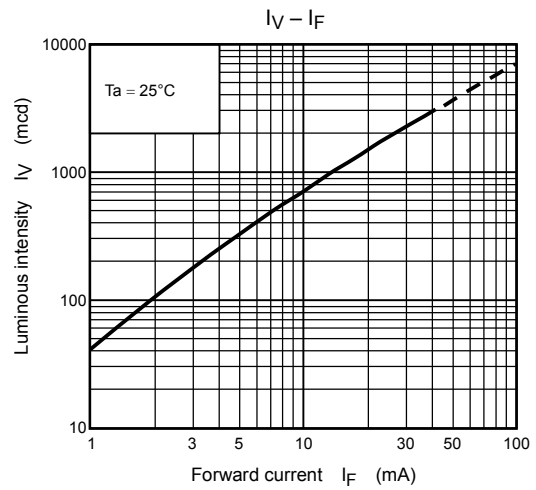
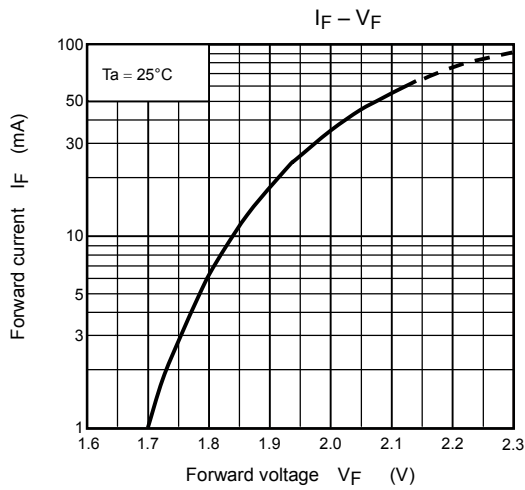
TLRE16TP



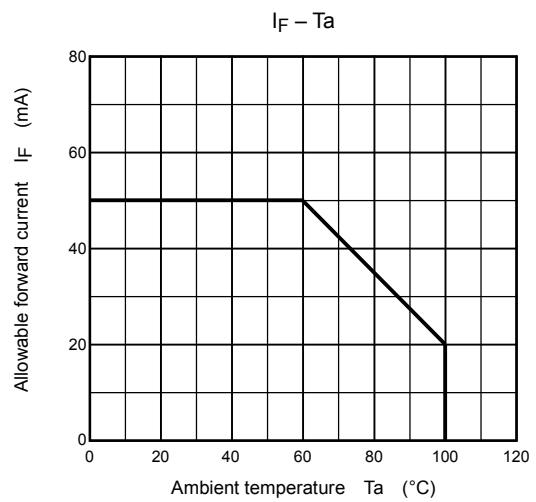
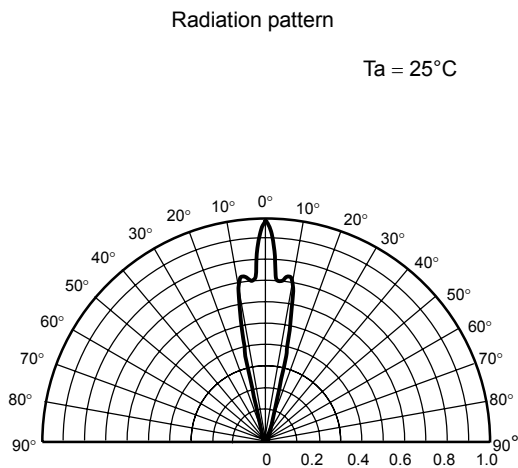
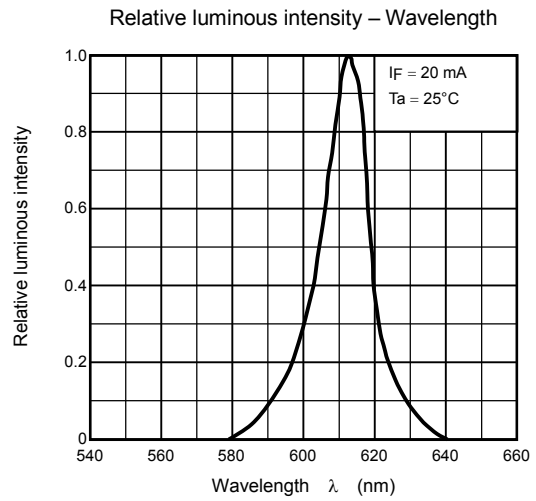
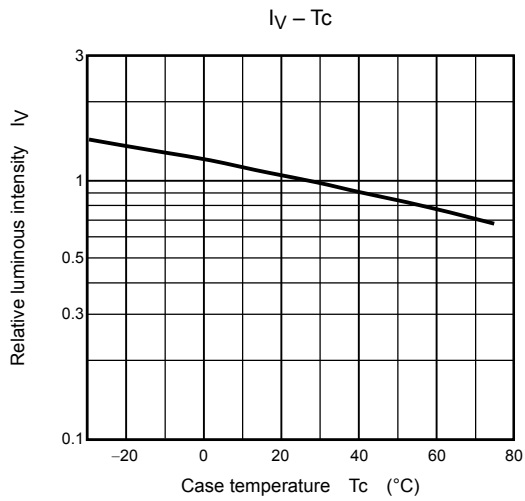
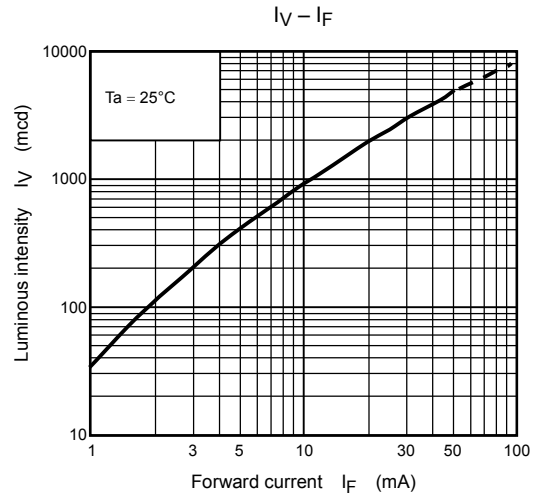
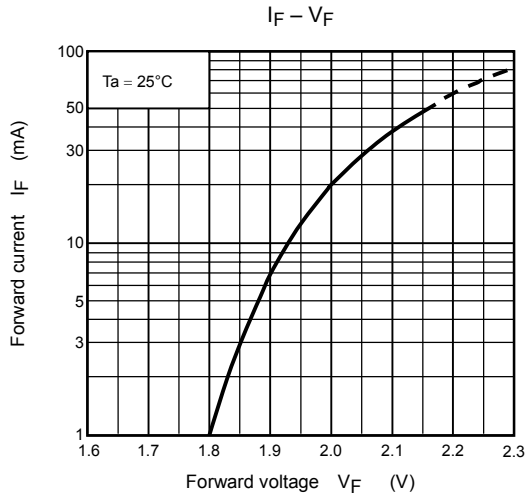
## TLRME16TP



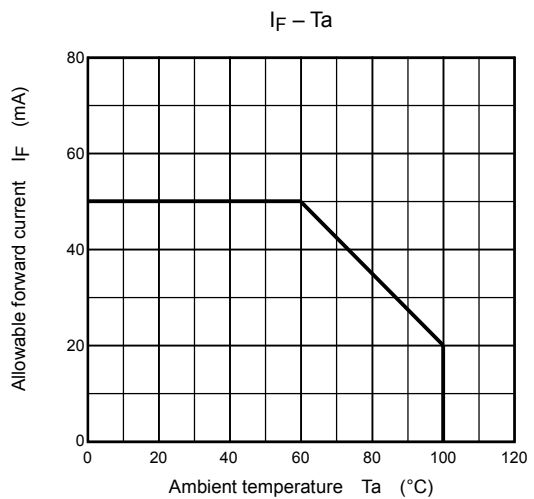
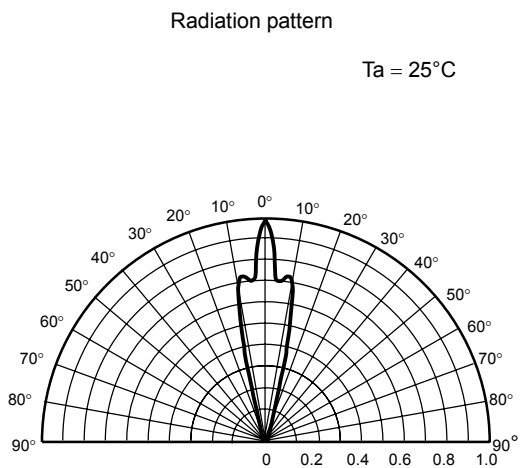
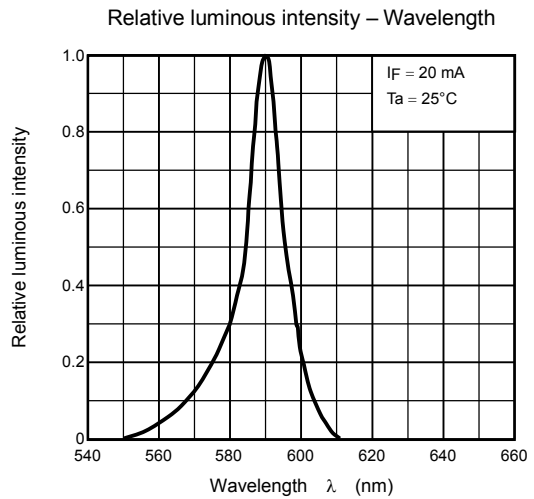
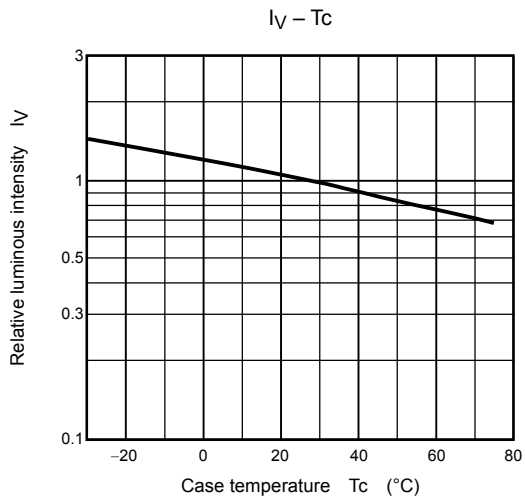
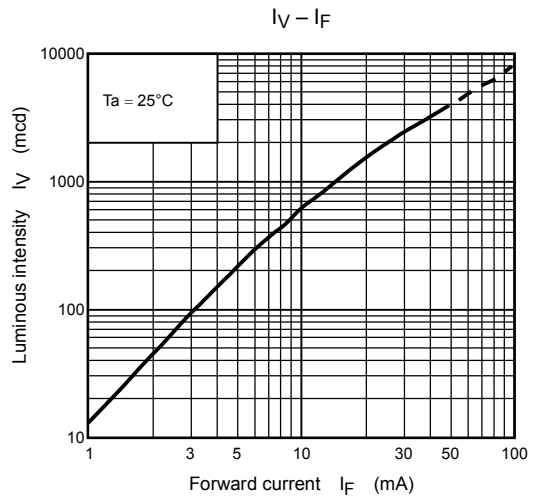
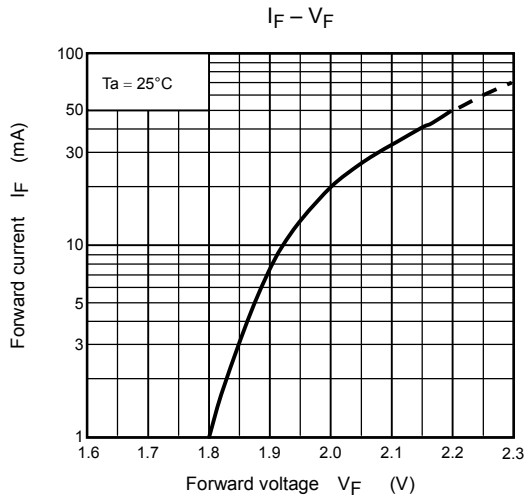
## TLSE16TP



## TLOE16TP



TLYE16TP



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