

## TOSHIBA LED Lamp

### TLRE17T,TLRME17T,TLSE17T TLOE17T,TLYE17T

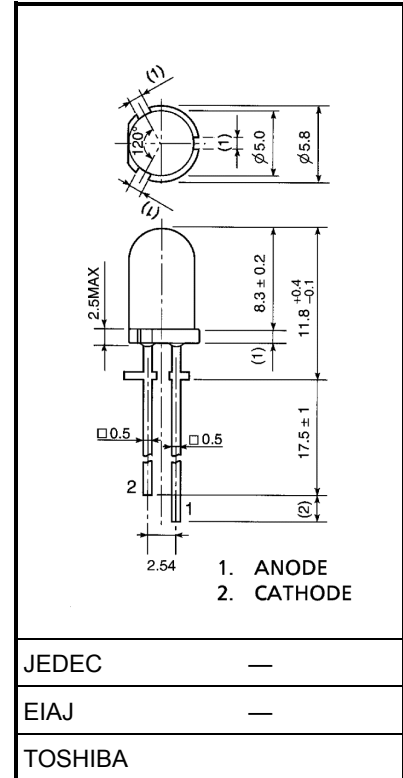
#### Panel Circuit Indicator

- 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

#### Line-Up

Product Name	Color	Material
TLRE17T	Red	InGaAlP
TLRME17T	Red	InGaAlP
TLSE17T	Red	InGaAlP
TLOE17T	Orange	InGaAlP
TLYE17T	Yellow	InGaAlP

Unit in mm



Weight: 0.31 g (typ.)

#### 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)
TLRE17T	50	4	120	-40~100	-40~120
TLRME17T	50	4	120		
TLSE17T	50	4	120		
TLOE17T	50	4	120		
TLYE17T	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 $I_R$	
	$\lambda_d$	$\lambda_p$	$\Delta\lambda$	$I_F$	Min	Typ.	$I_F$	Typ.	Max	$I_F$	Max	$V_R$
TLRE17T	630	(644)	20	20	476	1500	20	1.9	2.4	20	50	4
TLRME17T	626	(636)	23	20	850	2400	20	1.9	2.4	20	50	4
TLSE17T	613	(623)	20	20	850	3000	20	1.9	2.4	20	50	4
TLOE17T	605	(612)	20	20	1530	4500	20	2.0	2.4	20	50	4
TLYE17T	587	(590)	17	20	850	3000	20	2.0	2.4	20	50	4
Unit	nm			mA	mcd		mA	V		mA	$\mu$ A	V

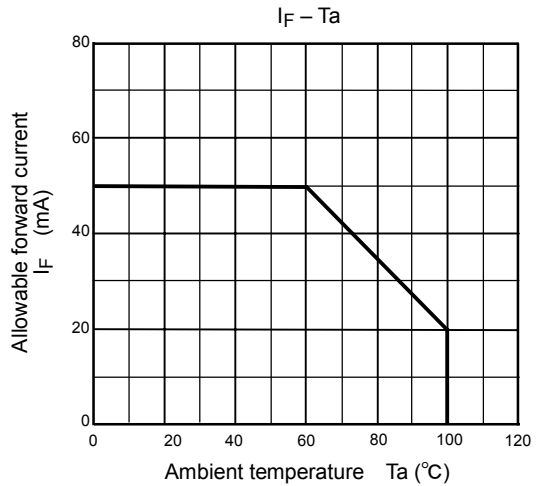
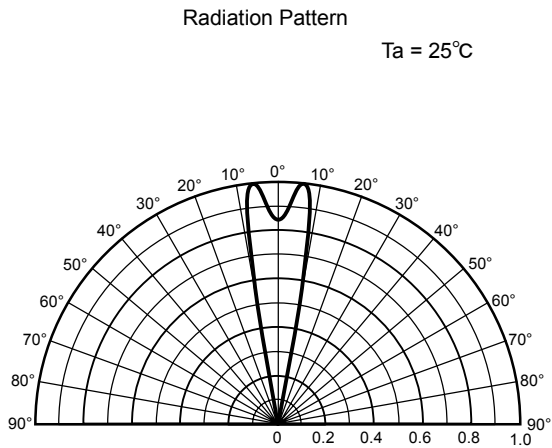
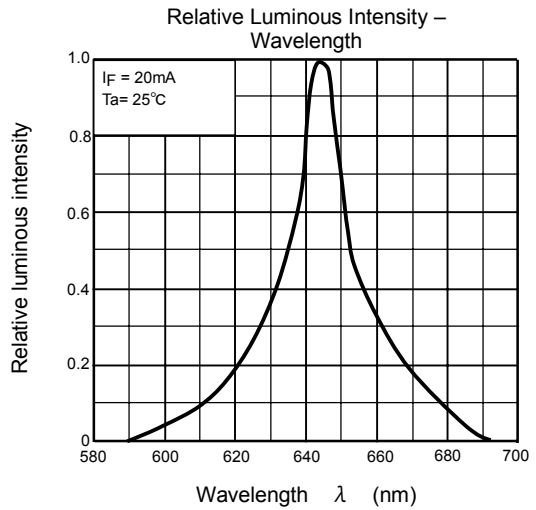
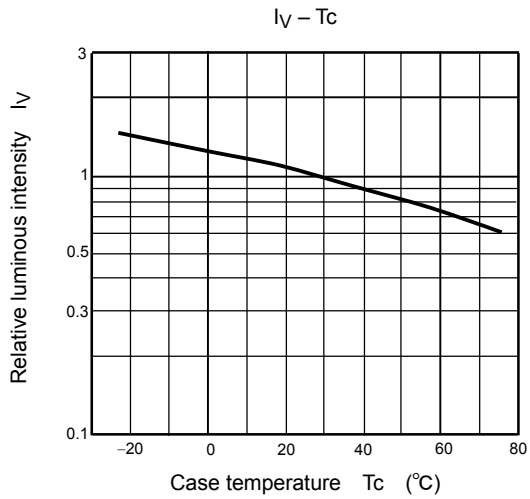
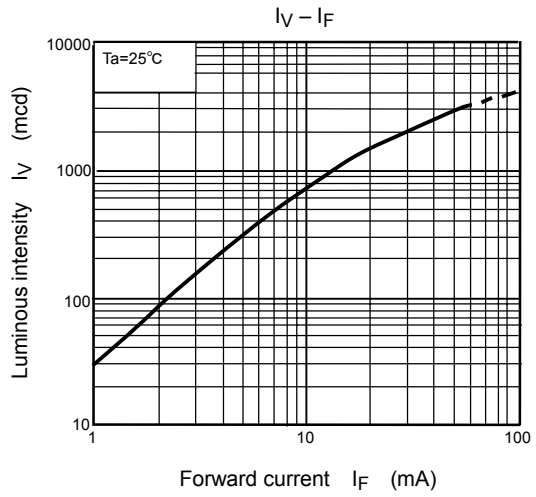
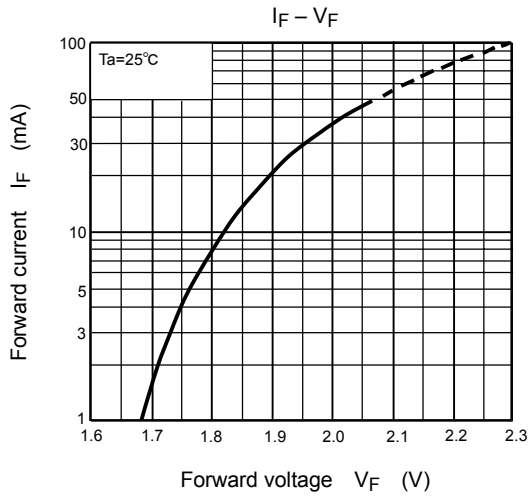
**Precautions**

Please be careful of the following:

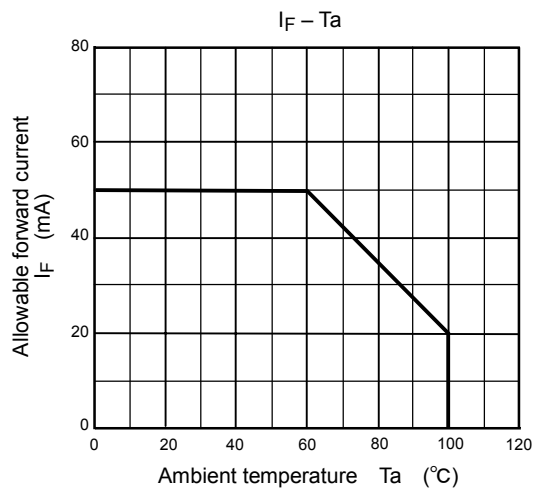
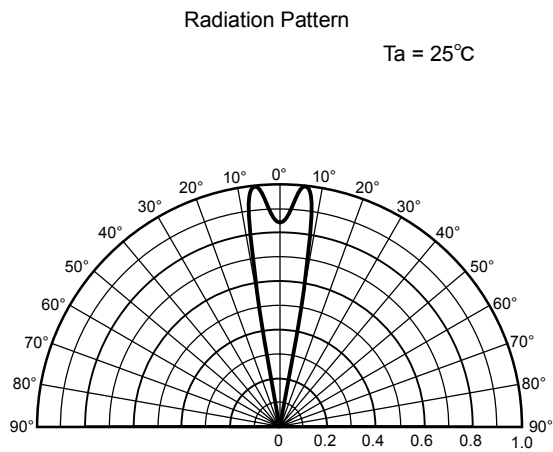
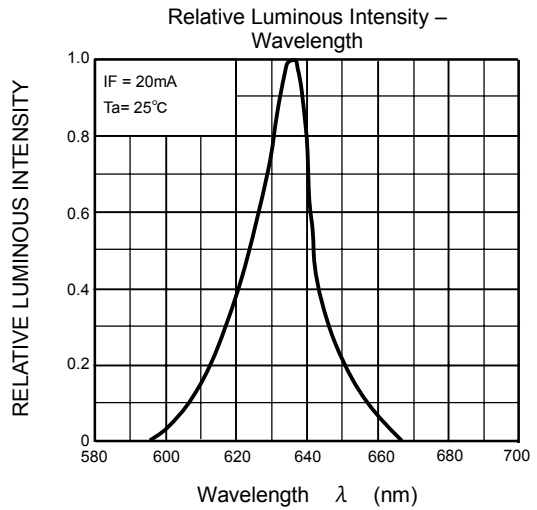
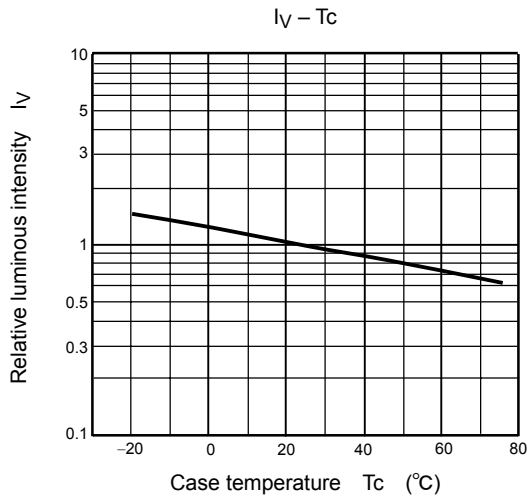
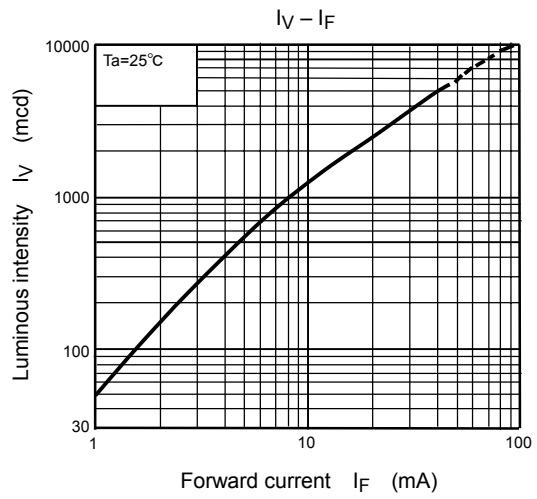
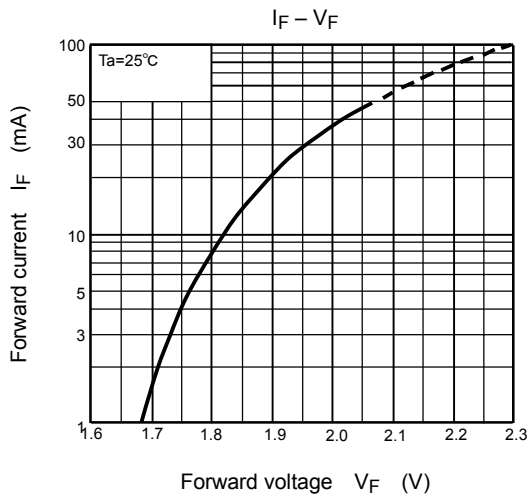
- Soldering temperature: 260°C max, soldering time: 3s max  
(Soldering portion of lead: Below the lead stopper)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible 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.

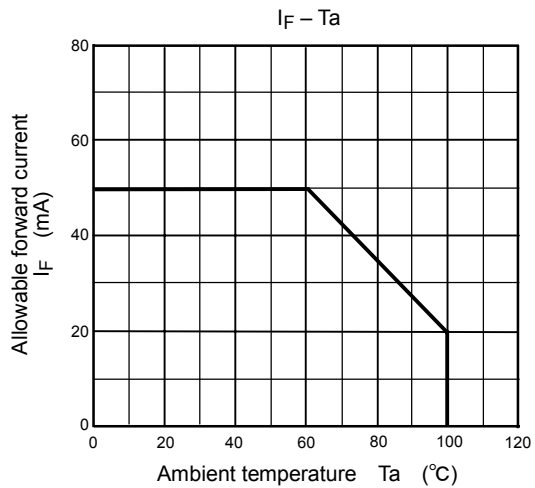
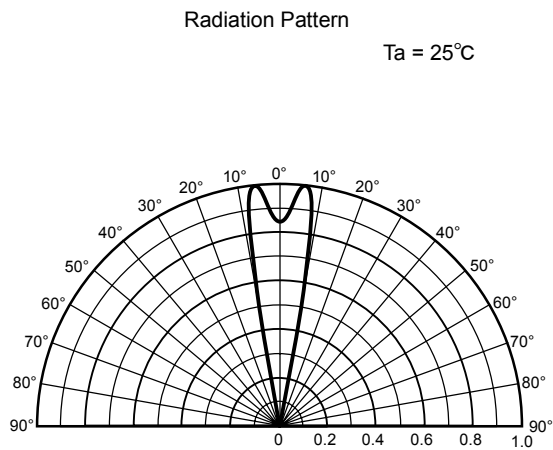
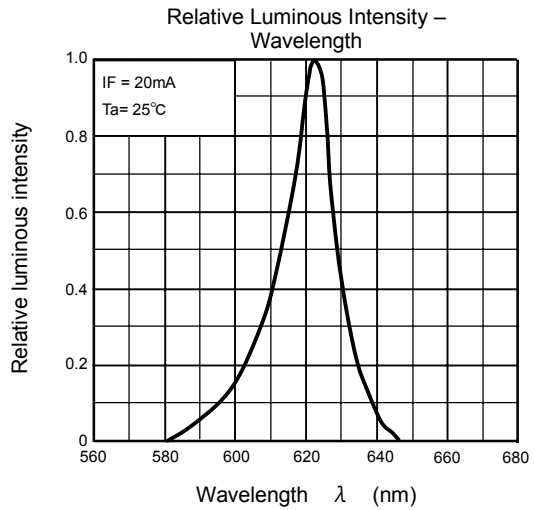
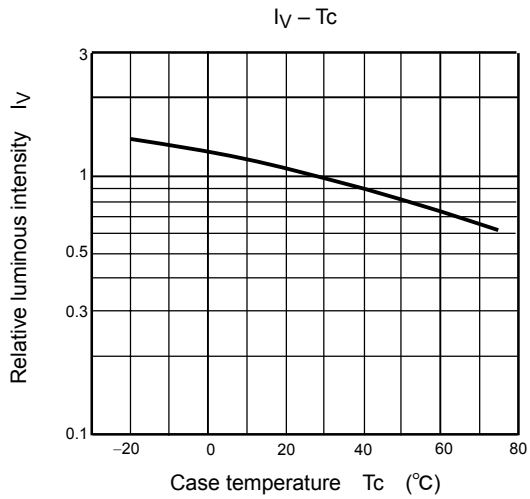
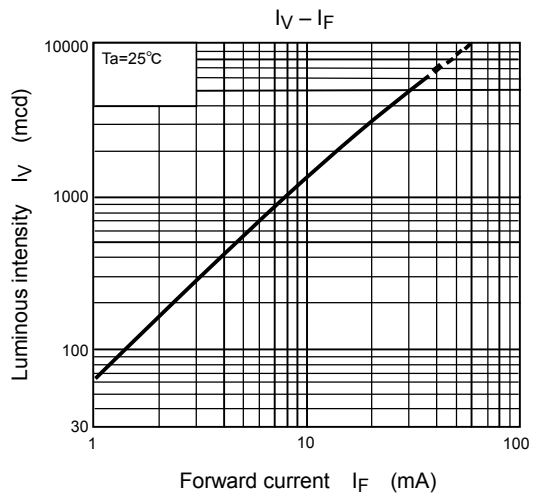
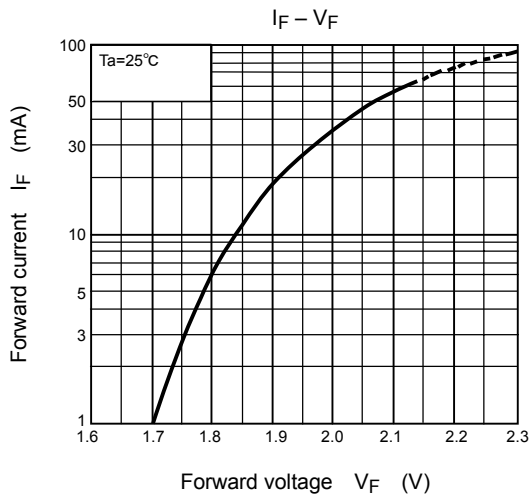
TLRE17T



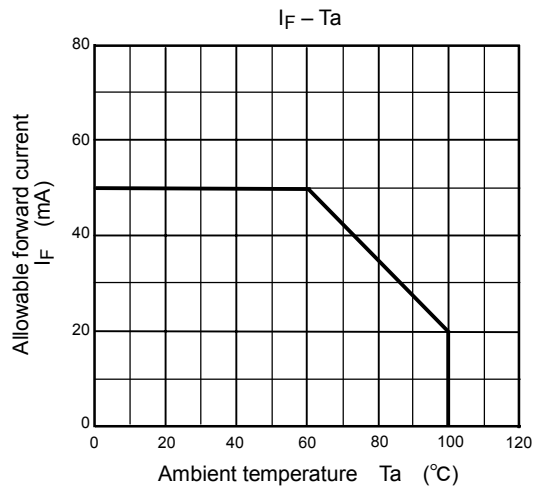
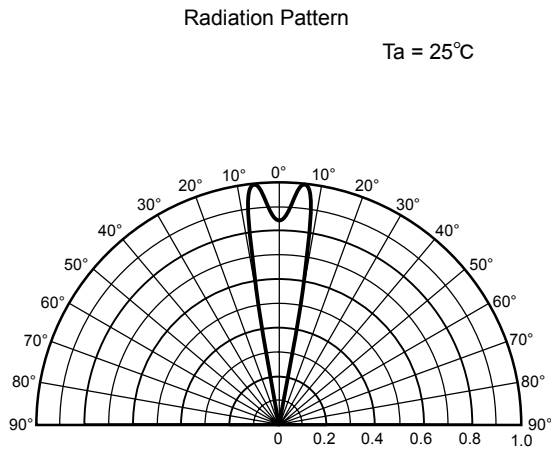
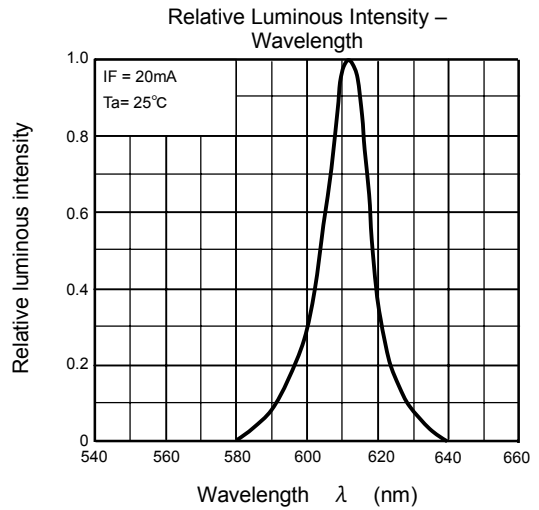
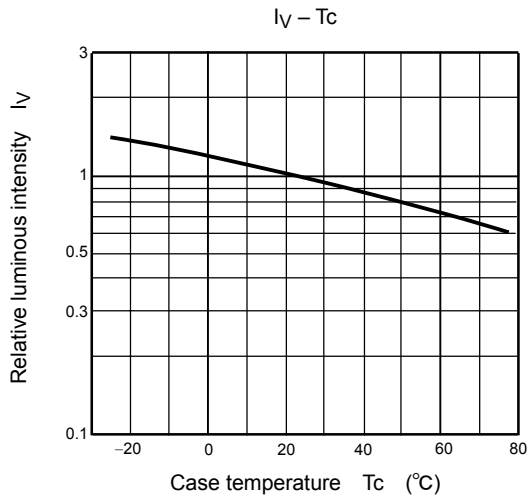
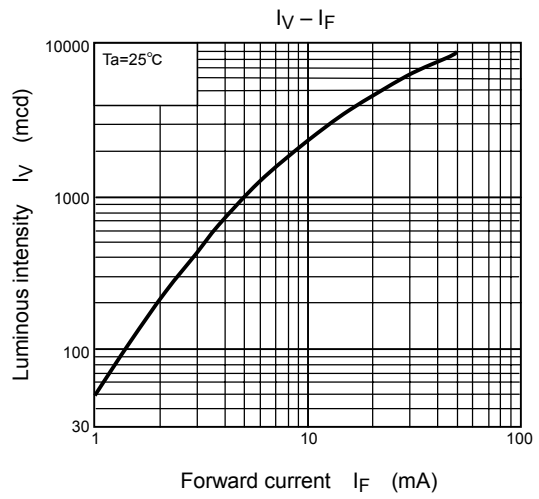
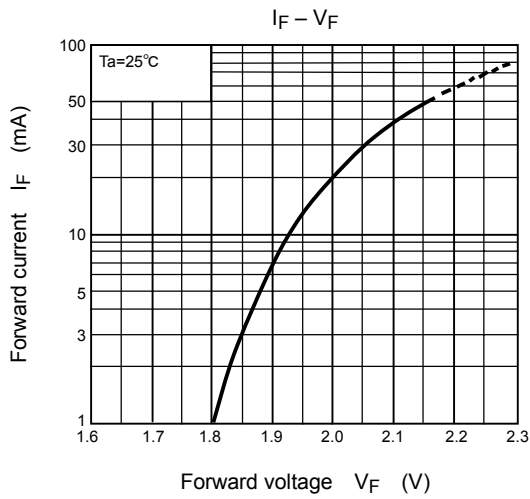
TLRME17T



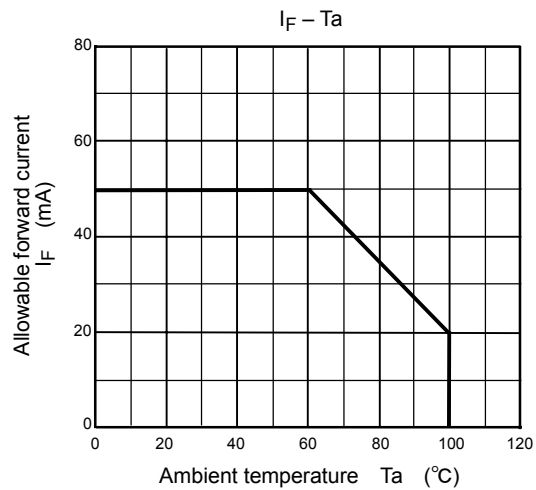
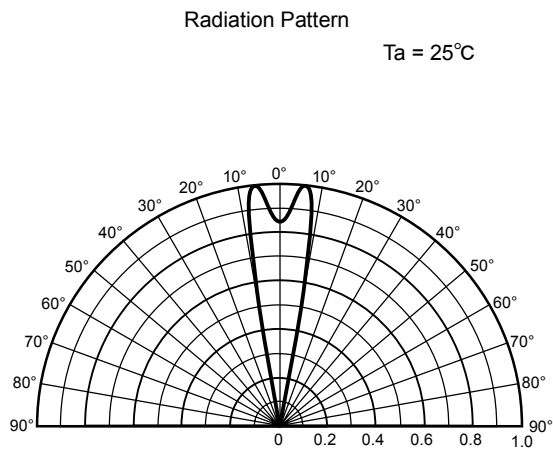
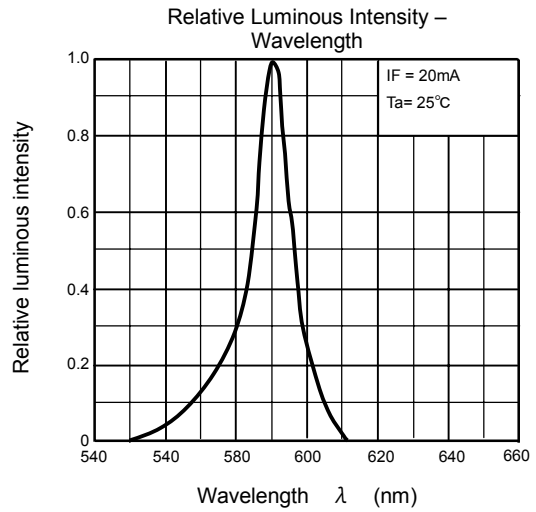
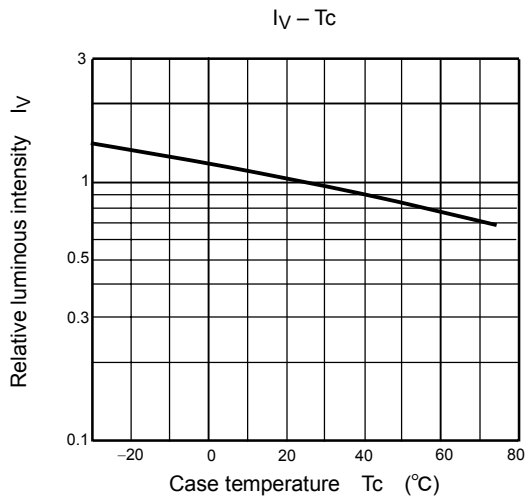
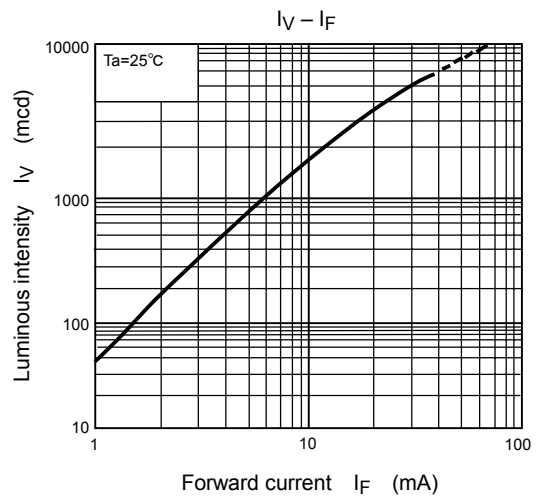
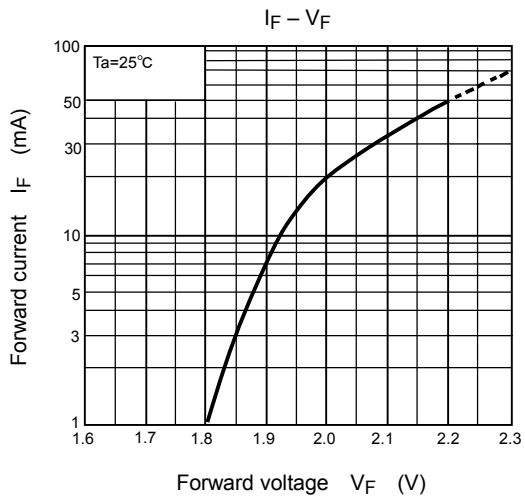
TLSE17T



TLOE17T



TLYE17T



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