

TOSHIBA LED LAMP

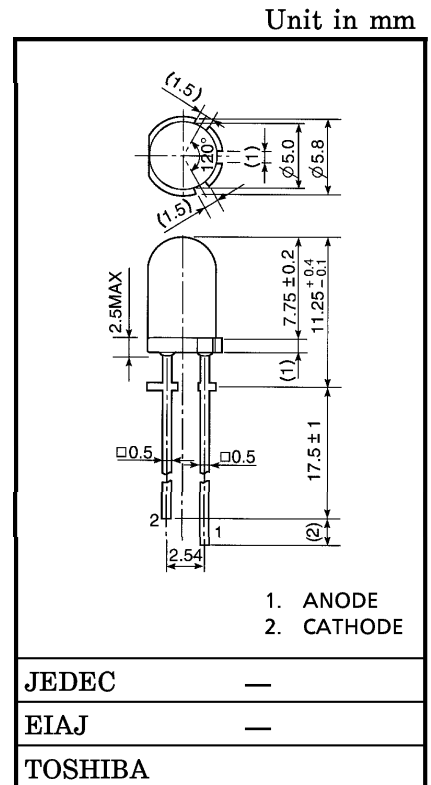
**TLRE16T, TLRME16T, TLSE16T
TLOE16T, TLYE16T**

PANEL CIRCUIT INDICATOR

- 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

LINE-UP

PRODUCT NAME	COLOR	MATERIAL
TLRE16T	RED	InGaAlP
TLRME16T	RED	InGaAlP
TLSE16T	RED	InGaAlP
TLOE16T	ORANGE	InGaAlP
TLYE16T	YELLOW	InGaAlP



Weight : 0.31 g

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)
TLRE16T	50	4	120	-40~100	-40~120
TLRME16T	50	4	120		
TLSE16T	50	4	120		
TLOE16T	50	4	120		
TLYE16T	50	4	120		

ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta = 25°C)

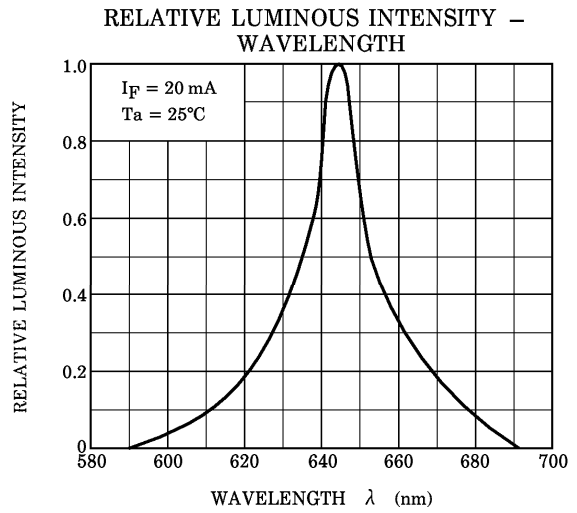
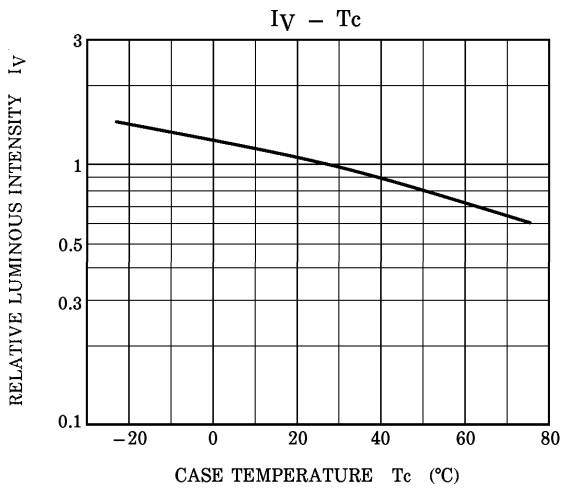
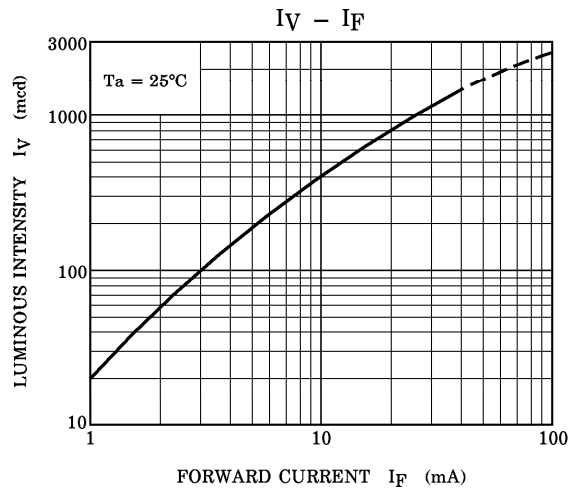
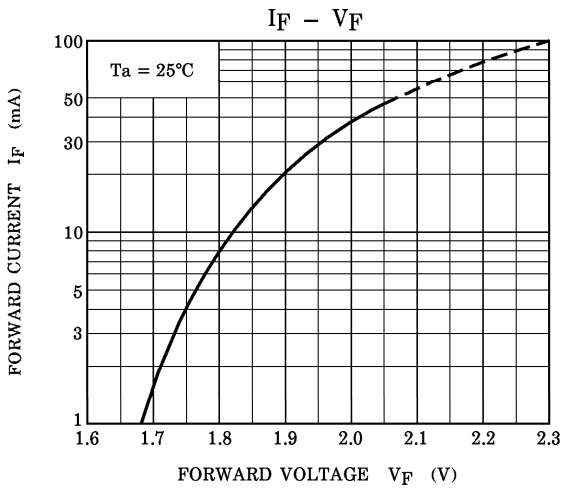
PRODUCT NAME	TYP. EMISSION WAVELENGTH				LUMINOUS INTENSITY I _V			FORWARD VOLTAGE V _F			REVERSE CURRENT I _R	
	λ _d	λ _p	Δλ	I _F	MIN	TYP.	I _F	TYP.	MAX	I _F	MAX	V _R
TLRE16T	630	(644)	20	20	272	800	20	1.9	2.4	20	50	4
TLRME16T	626	(636)	23	20	272	1200	20	1.9	2.4	20	50	4
TLSE16T	613	(623)	20	20	476	1500	20	1.9	2.4	20	50	4
TLOE16T	605	(612)	20	20	850	2000	20	2.0	2.4	20	50	4
TLYE16T	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:

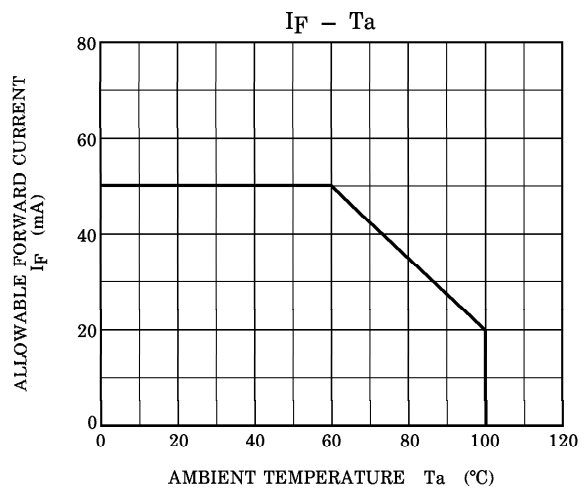
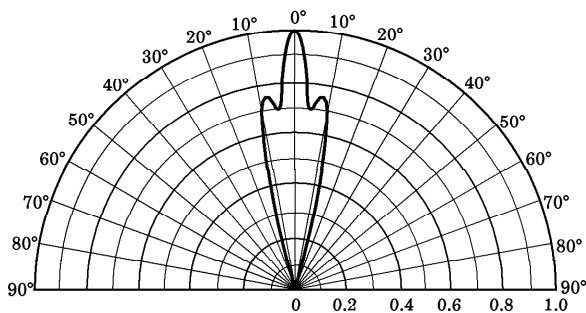
- Soldering temperature: 260°C max, soldering time: 3 s max (soldering portion of lead: below the lead stopper)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible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

TLRE16T

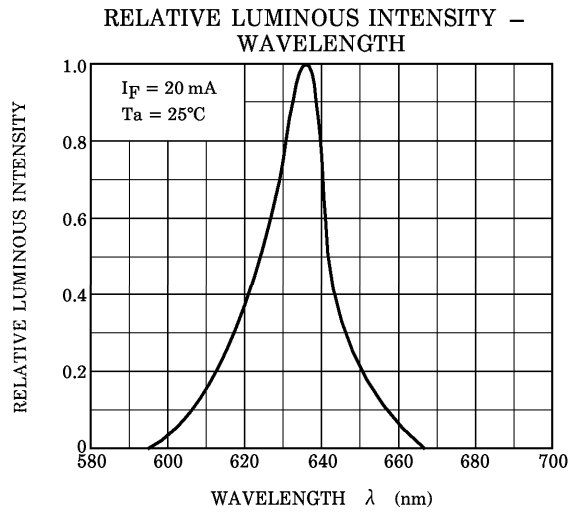
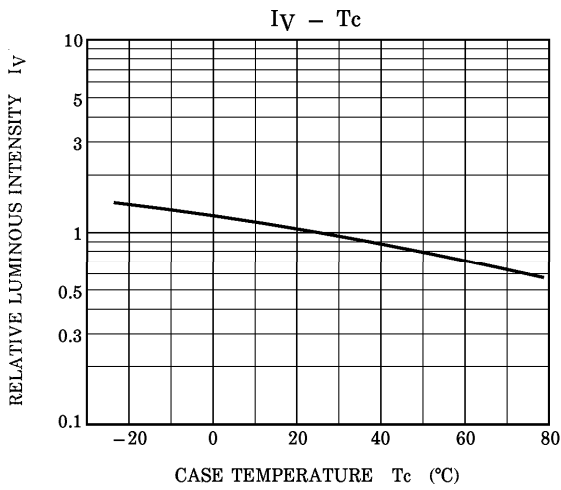
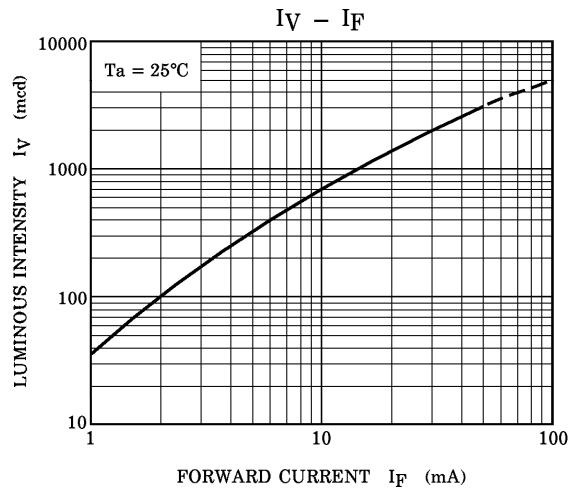
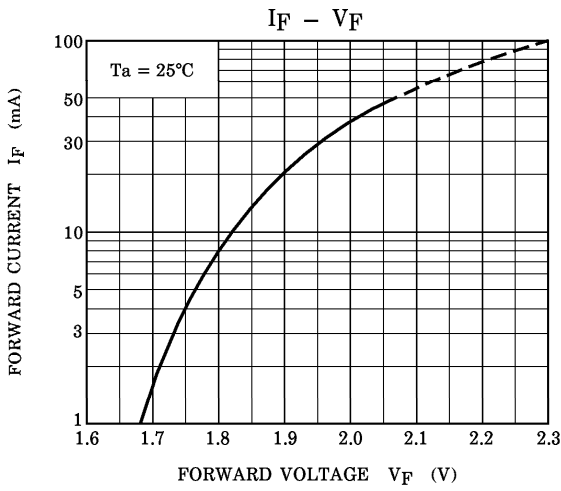


RADIATION PATTERN

$T_a = 25^\circ\text{C}$

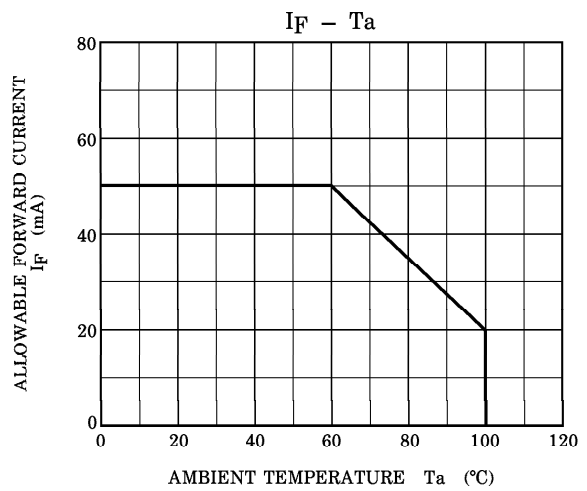
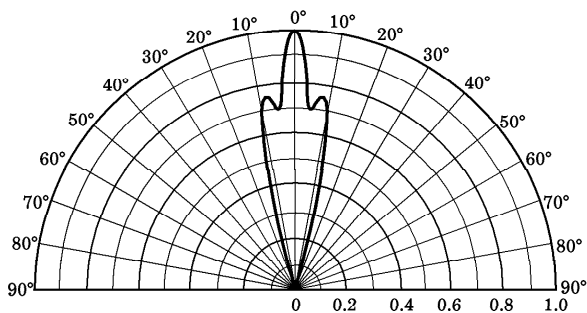


TLRME16T

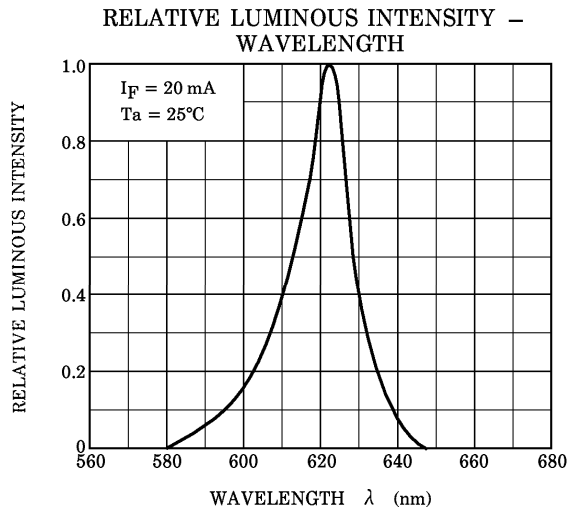
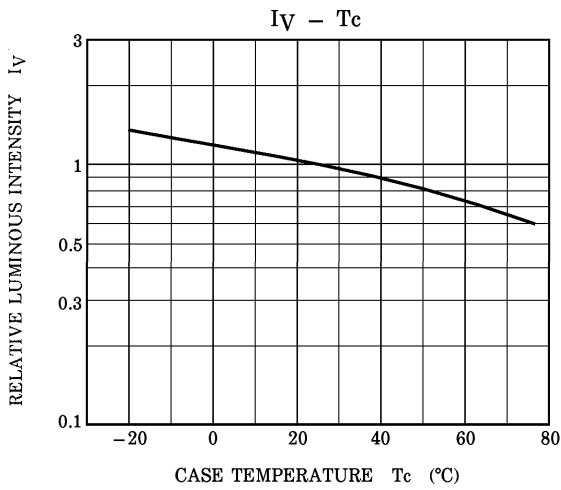
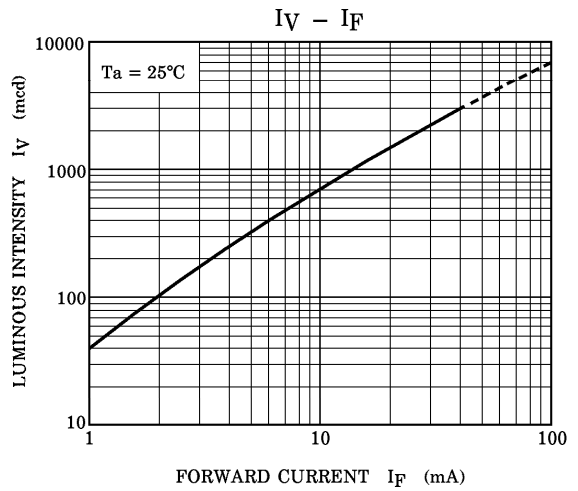
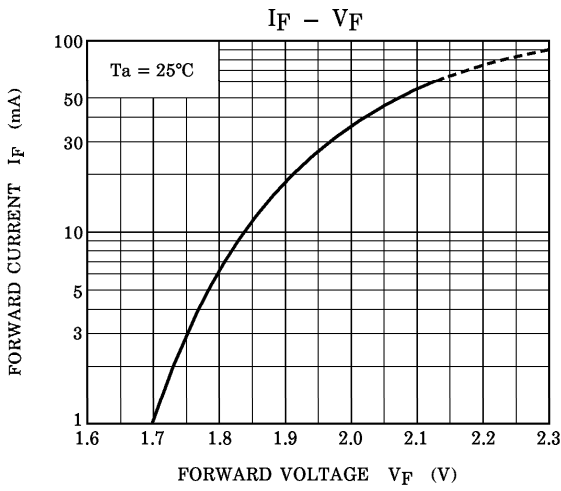


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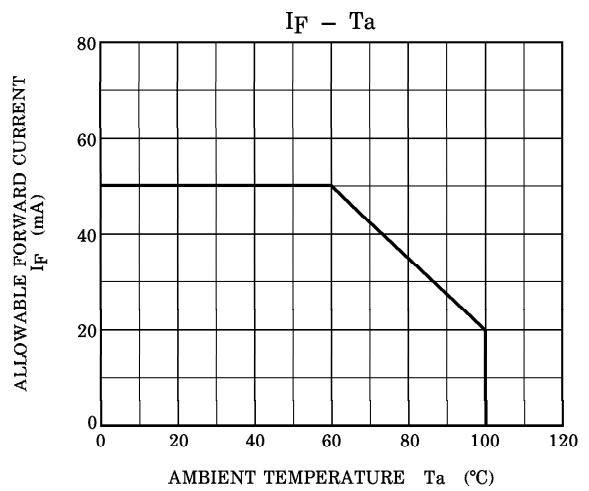
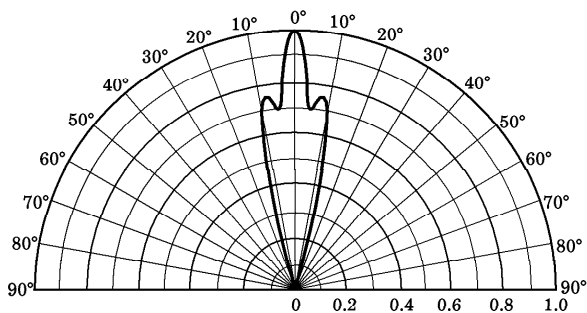


TLSE16T

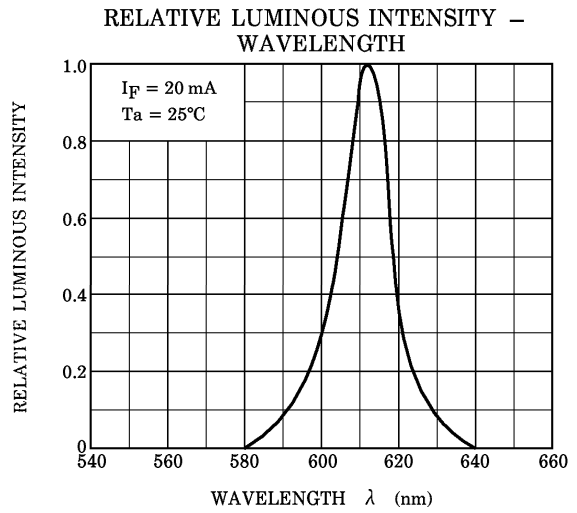
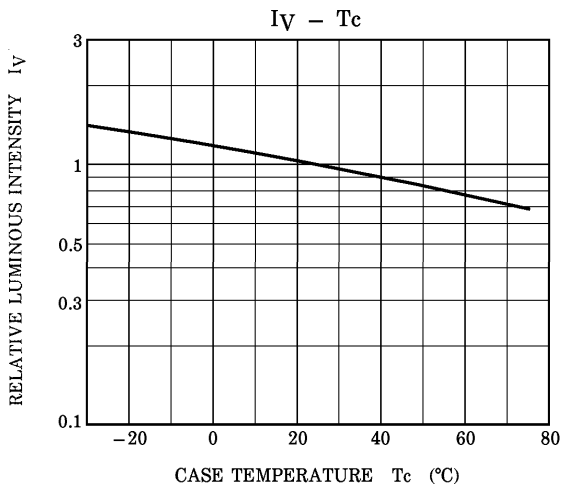
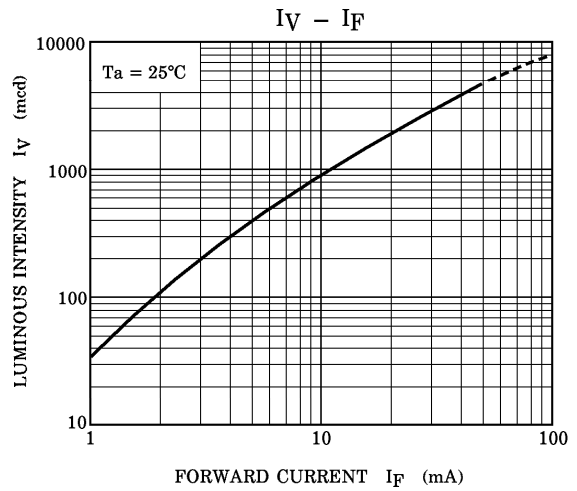
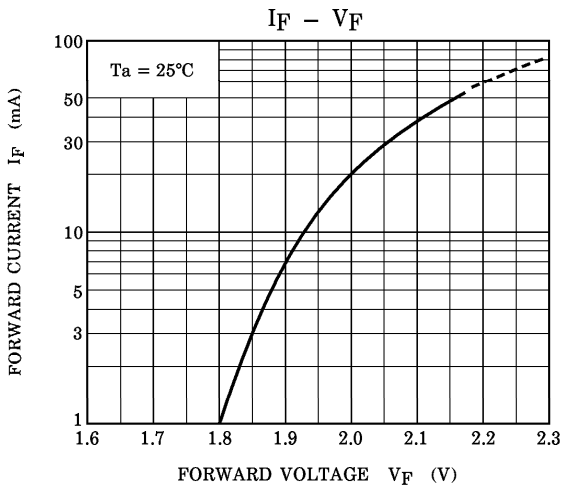


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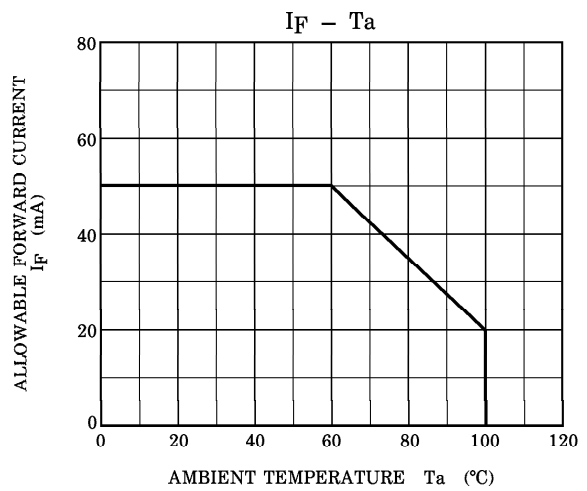
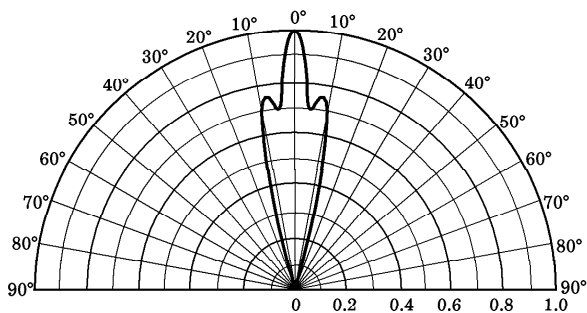


TLOE16T

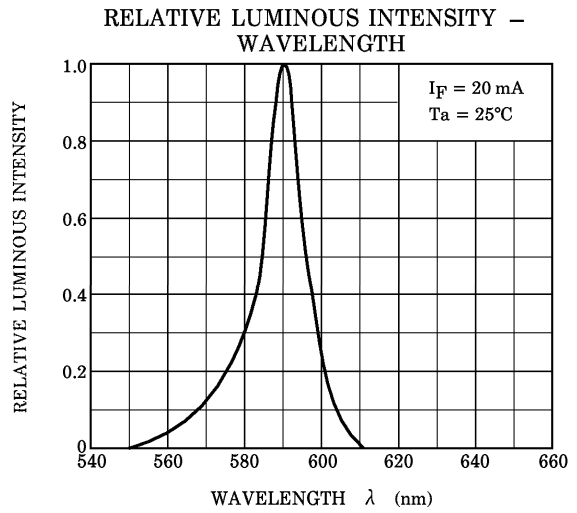
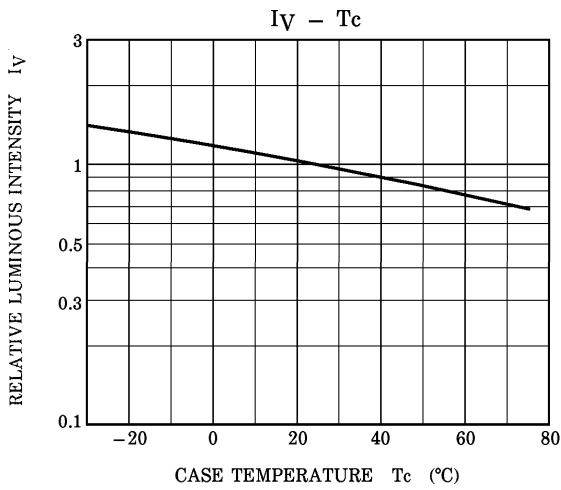
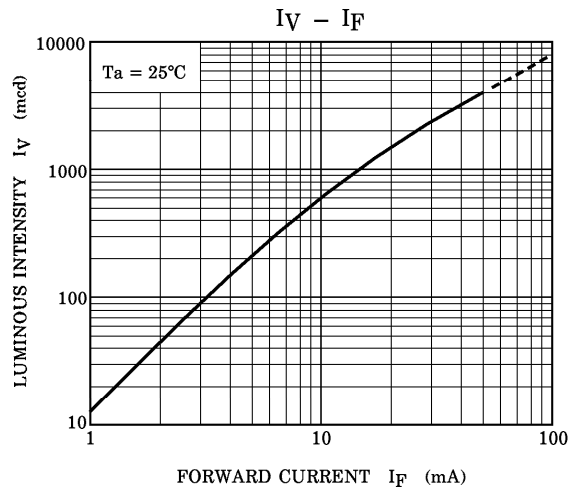
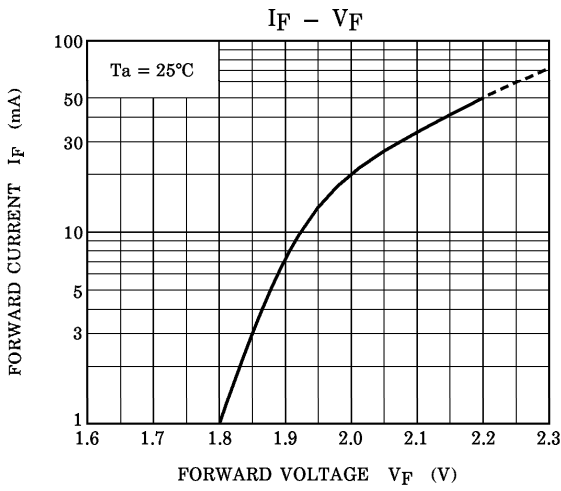


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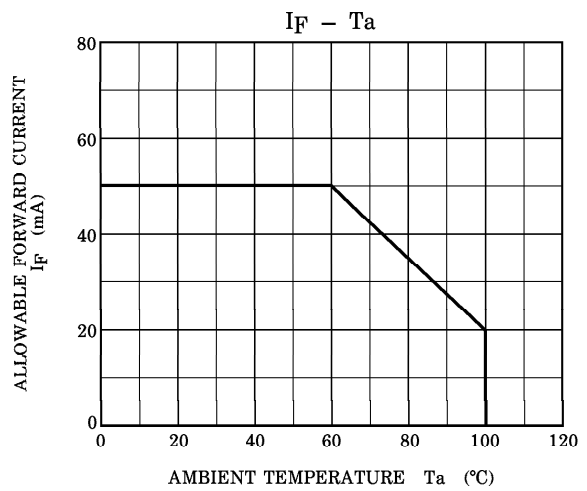
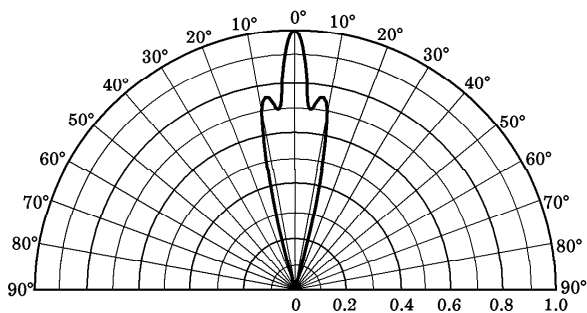


TLYE16T



RADIATION PATTERN

$T_a = 25^\circ\text{C}$



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