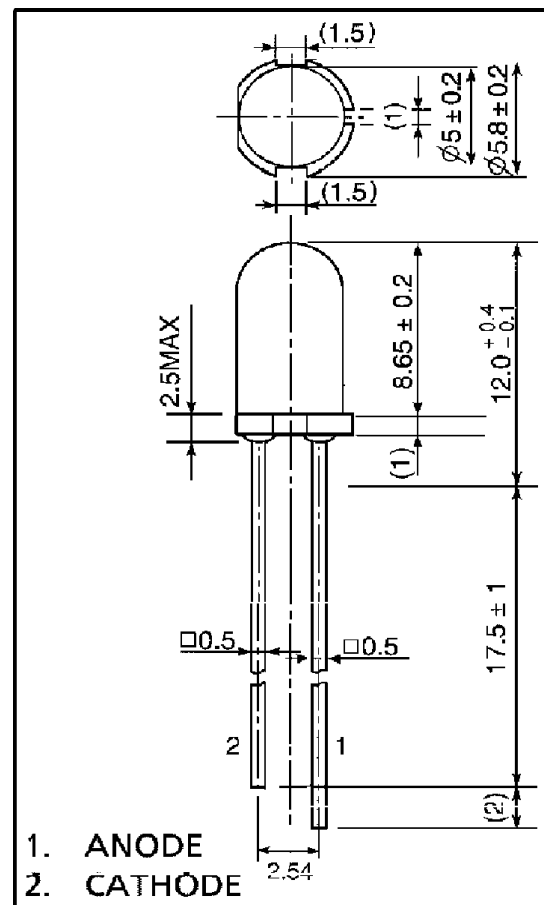


Features

5mm Package
InGaAlP Technology
All Plastic Mold Type
Transparent Lens
High Intensity Light Emission
Excellent Low Current Light Output

Applications

Outdoor Message Signs
Safety Equipment



Series Line-Up

Part Number	Color	Material
TLOE20TP	Ultra Bright Orange	InGaAlP
TLRE20TP	Ultra Bright Red	InGaAlP
TLRME20TP	Ultra Red	InGaAlP
TLSE20TP	Ultra Bright High Efficiency Red	InGaAlP
TLYE20TP	Ultra Bright Yellow	InGaAlP

Maximum Ratings (Ta=25°C)

Part Number	Forward Current I _F	Reverse Voltage V _R	Power Dissipation P _D	Operating Temperature T _{opr}	Storage Temperature T _{stg}
TLOE20TP	50	4	120.00	-40 ~100	-40 ~ 120
TLRE20TP	50	4	120.00	-40 ~100	-40 ~ 120
TLRME20TP	50	4	120.00	-40 ~100	-40 ~ 120
TLSE20TP	50	4	120.00	-40 ~100	-40 ~ 120
TLYE20TP	50	4	120.00	-40 ~100	-40 ~ 120
Unit	mA	V	mW	°C	°C

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West Coast Sales Office
950 South Coast Drive, Suite 265
Costa Mesa, California 92626
Toll Free: 800.984.5337
Fax: 714.850.9314

Electrical and Optical Characteristics (Ta=25°C)

Part Number	PWL nm λ_P	Material	View Angle $2\theta_{1/2}$	Luminous Intensity I_v				Forward Voltage V_F				Rev Current I_R	
				min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@
TLOE20TP	612	InGaAlP	10°	4760.00	10000.00	–	20mA	–	2.00	2.40	20mA	50	4V
TLRE20TP	644	InGaAlP	10°	2720.00	7000.00	–	20mA	–	1.90	2.40	20mA	50	4V
TLRME20TP	636	InGaAlP	10°	2720.00	8000.00	–	20mA	–	1.90	2.40	20mA	50	4V
TLSE20TP	623	InGaAlP	10°	2720.00	9000.00	–	20mA	–	1.90	2.40	20mA	50	4V
TLYE20TP	590	InGaAlP	10°	2720.00	9500.00	–	20mA	–	2.00	2.40	20mA	50	4V
–	nm	–	deg	mcd				–	V		–	μA	–

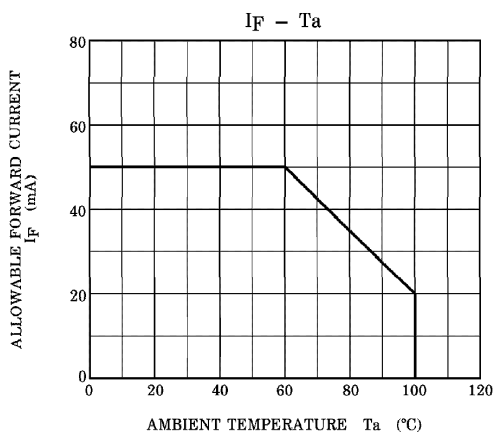
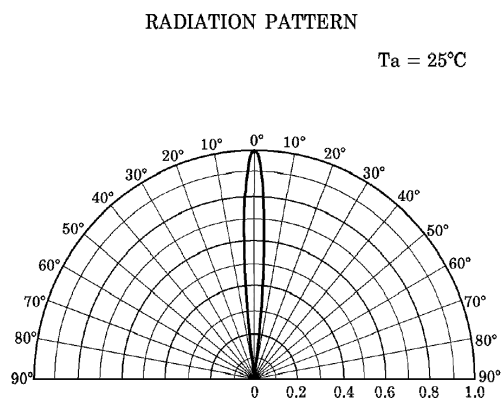
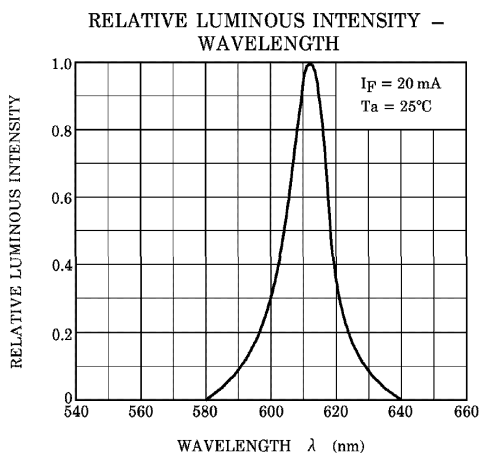
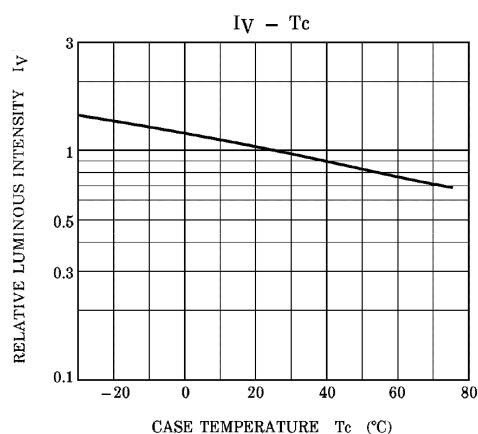
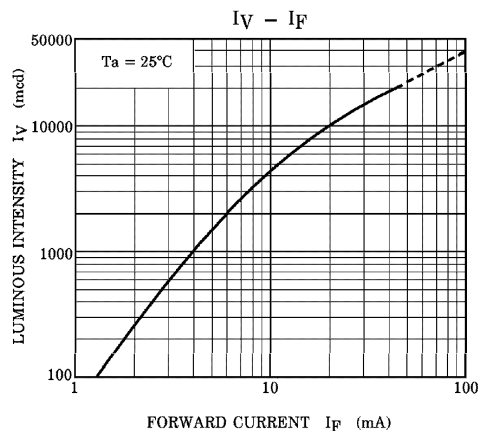
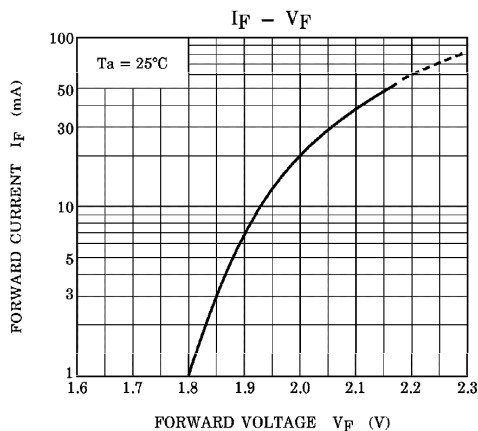
Precautions

- 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.

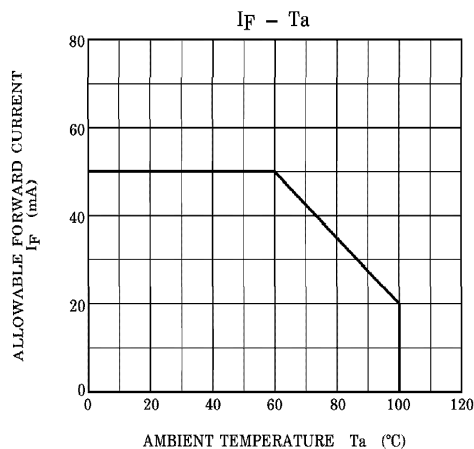
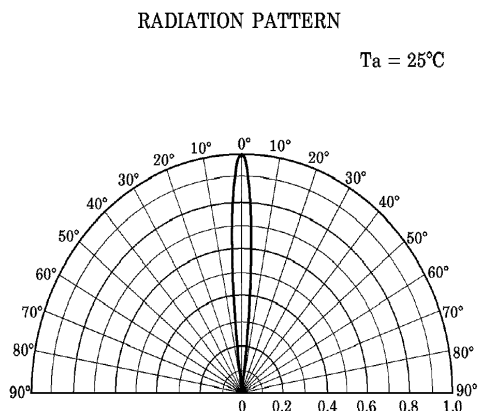
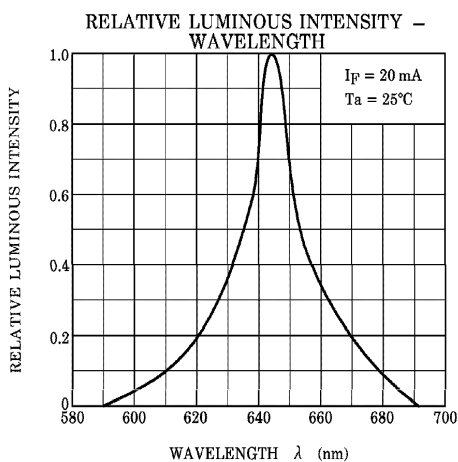
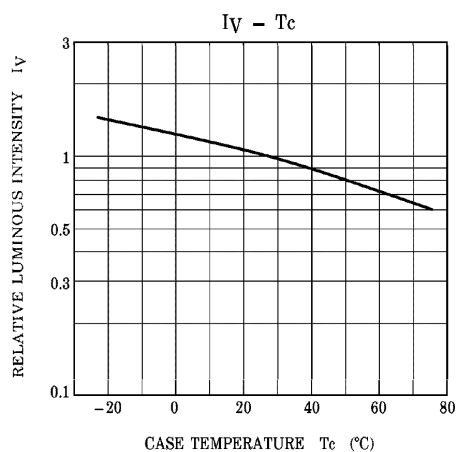
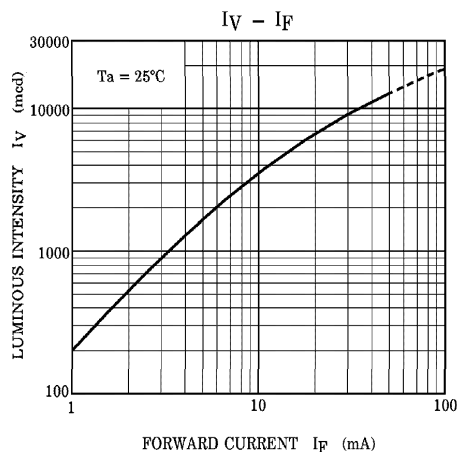
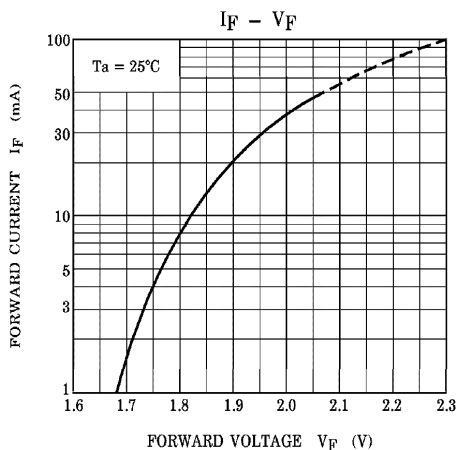
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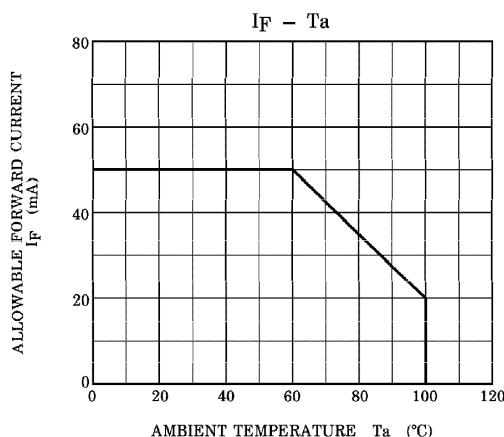
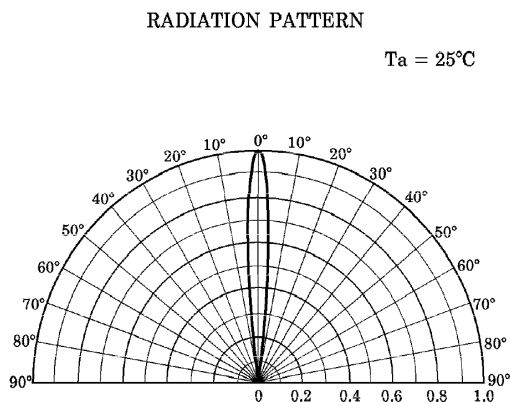
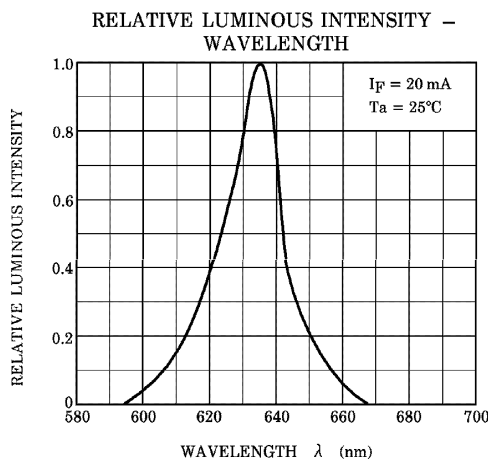
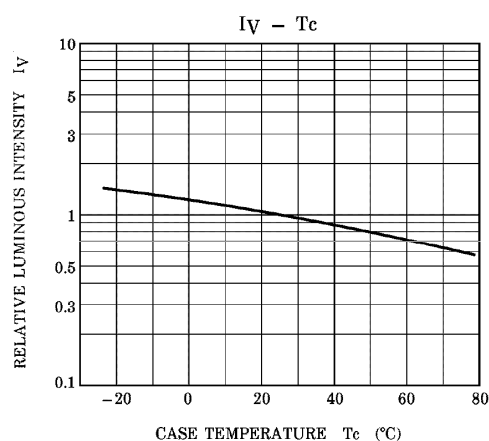
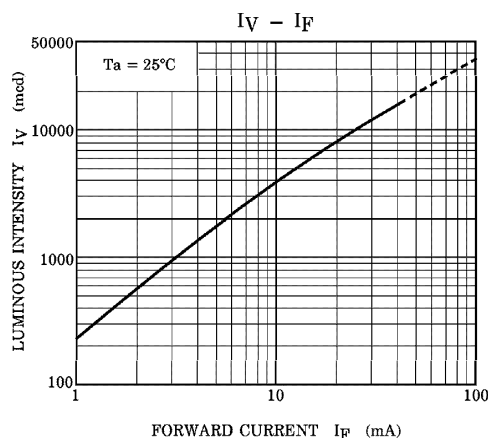
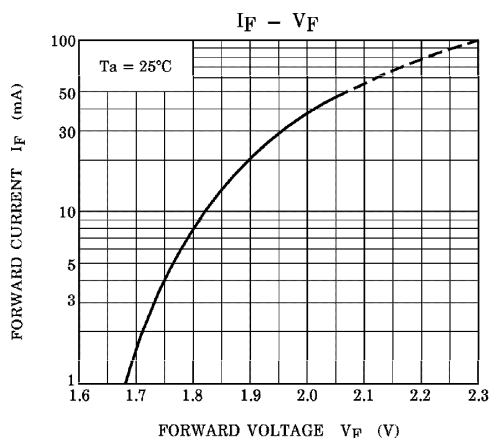
TLOE20TP Graphs



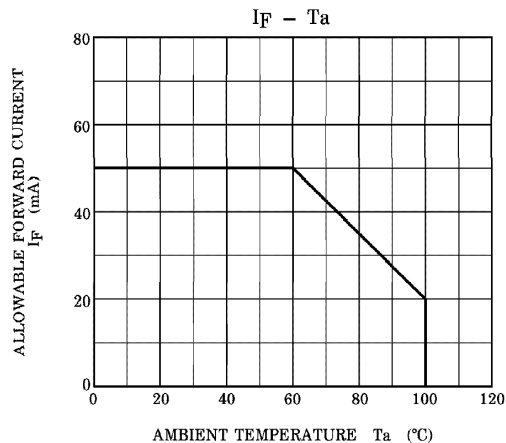
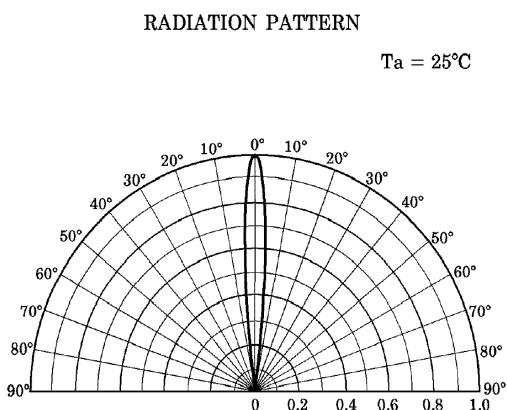
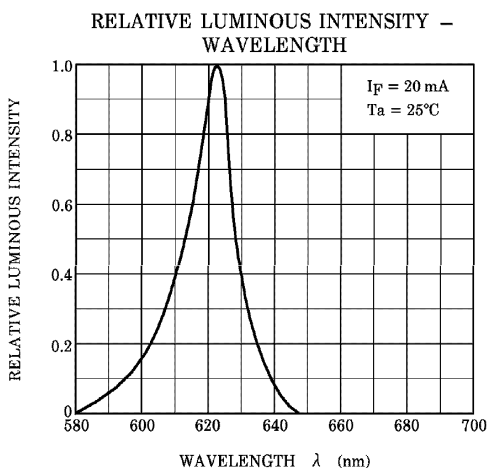
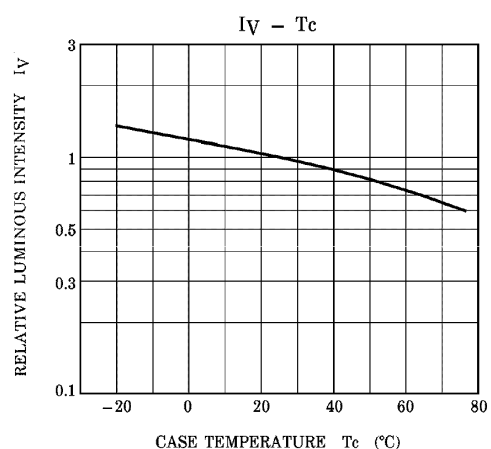
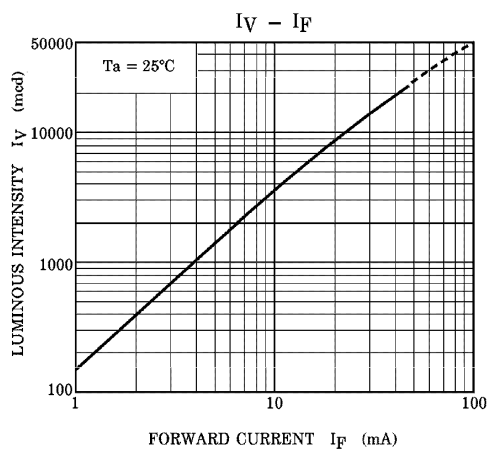
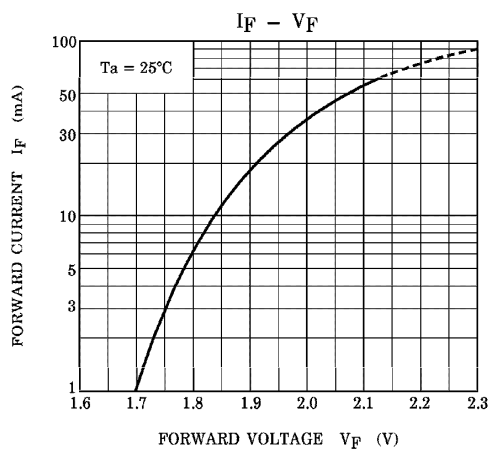
TLRE20TP Graphs



TLRME20TP Graphs



TLSE20TP Graphs



TLYE20TP Graphs

