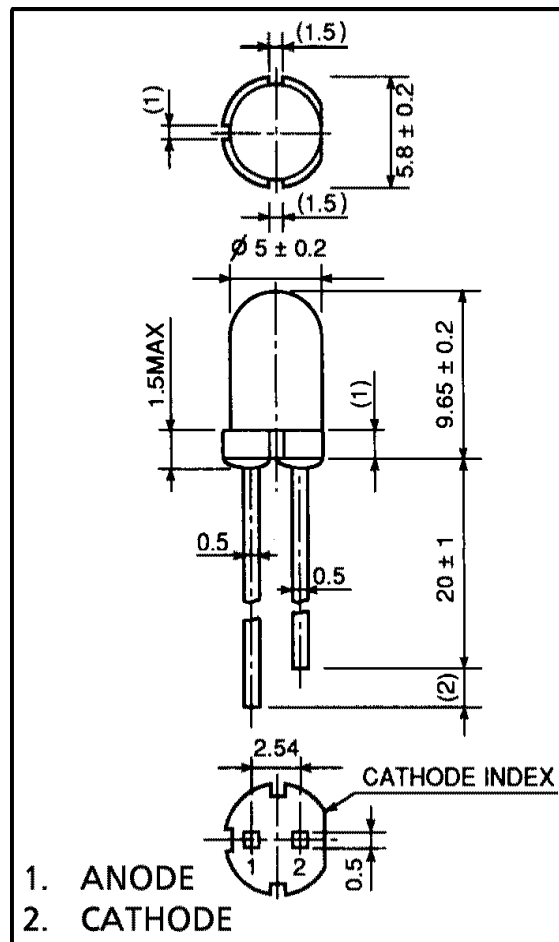


Features

5mm Package
InGaAlP Technology
All Plastic Mold Type
Water Clear Lens
Fast Response Time, Capable of Pulse Operation
High Power Luminous Intensity

Applications

Outdoor Message Signboard
Safety equipment



Series Line-Up

Part Number	Color	Material
TLOH180P	Ultra Bright Orange	InGaAlP
TLRH180P	Ultra Bright Red	InGaAlP
TLSH180P	Ultra Bright High Efficiency Red	InGaAlP
TLYH180P	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}
TLOH180P	50	4	125.00	-30 ~ 85	-40 ~ 120
TLRH180P	50	4	125.00	-30 ~ 85	-40 ~ 120
TLSH180P	50	4	125.00	-30 ~ 85	-40 ~ 120
TLYH180P	50	4	125.00	-30 ~ 85	-40 ~ 120
Unit	mA	V	mW	°C	°C

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Latham, New York 12110
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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@
TLOH180P	612	InGaAlP	8°	2720.00	10000.00	–	20mA	–	2.10	2.50	20mA	50	4V
TLRH180P	644	InGaAlP	8°	1530.00	5000.00	–	20mA	–	1.90	2.50	20mA	50	4V
TLSH180P	623	InGaAlP	8°	2720.00	10000.00	–	20mA	–	2.10	2.50	20mA	50	4V
TYH180P	590	InGaAlP	8°	2720.00	8000.00	–	20mA	–	2.10	2.50	20mA	50	4V
–	nm	–	deg	mcd			–	V			–	μA	–

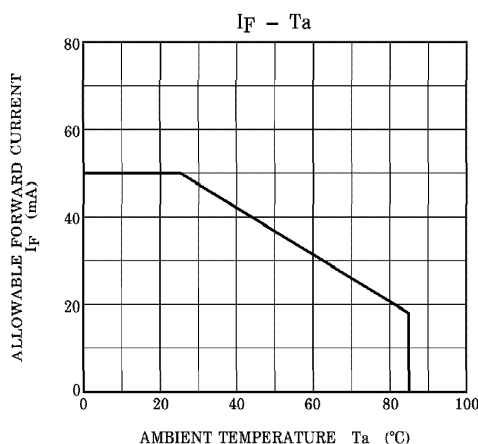
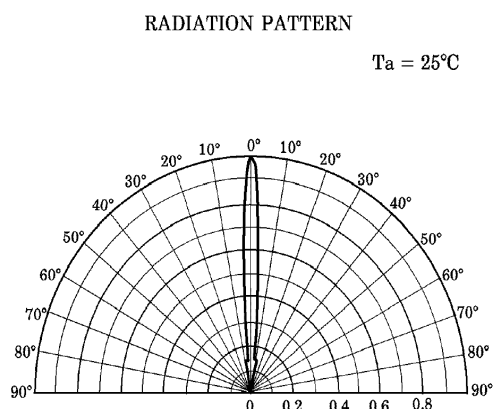
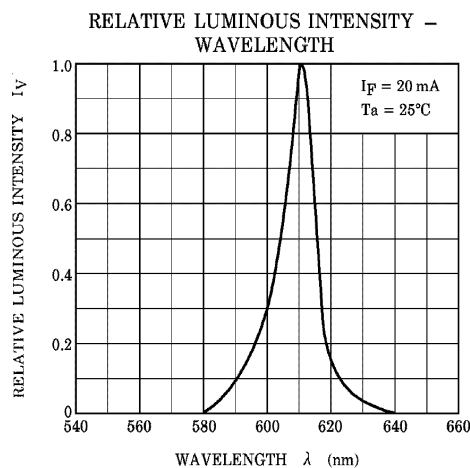
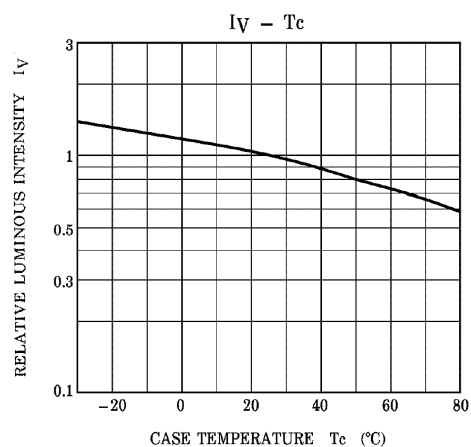
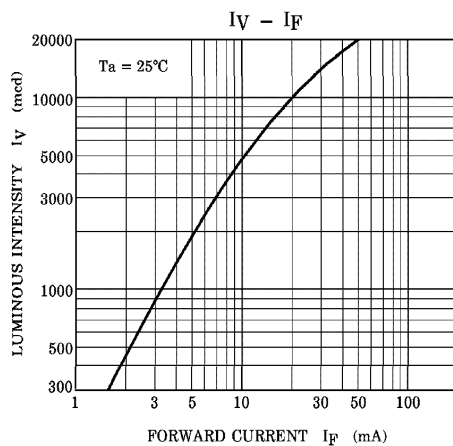
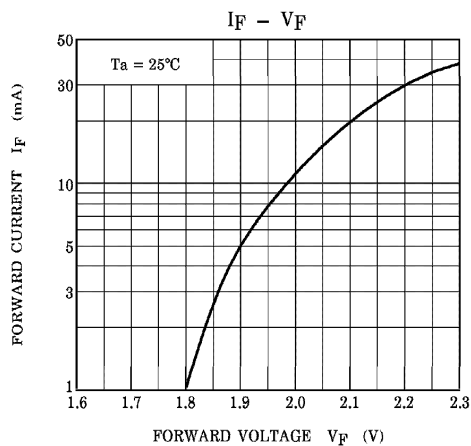
Precautions

- 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.

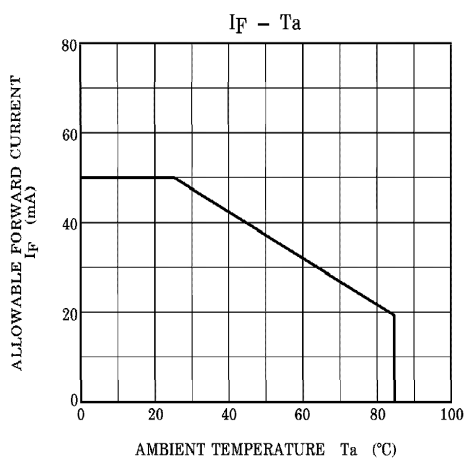
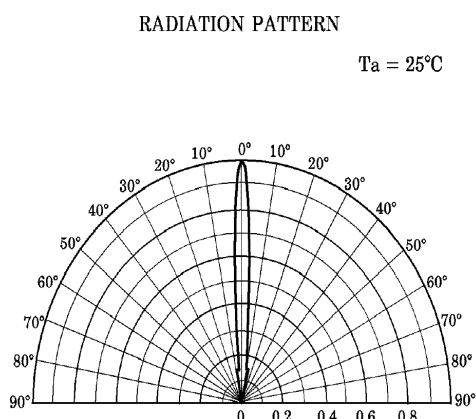
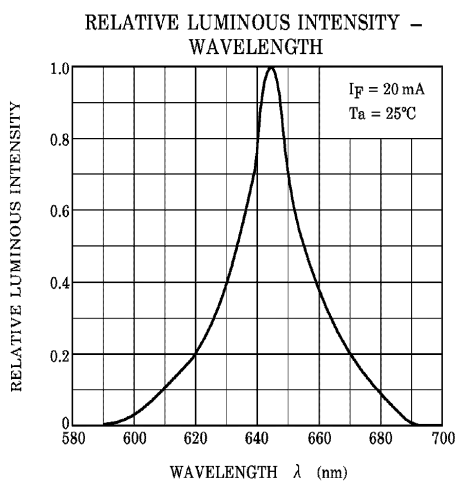
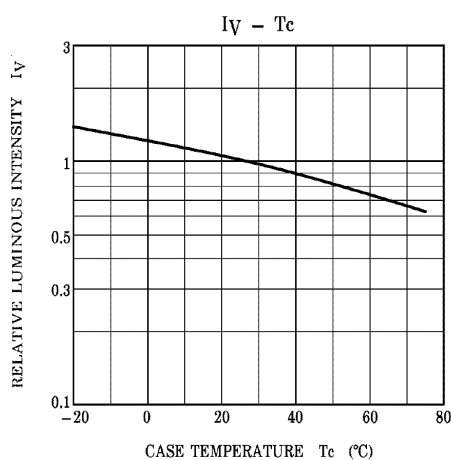
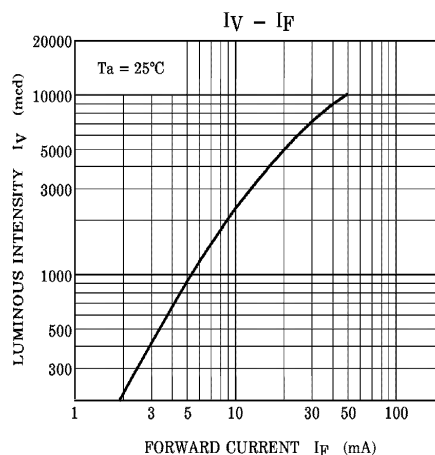
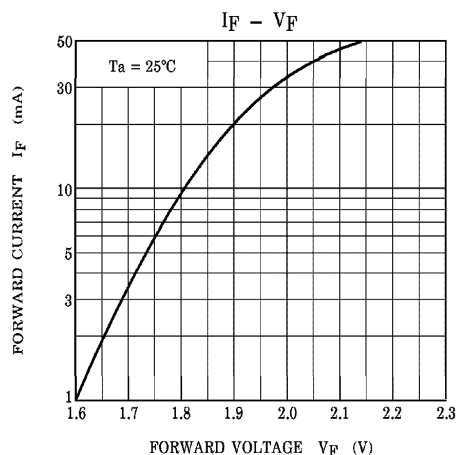
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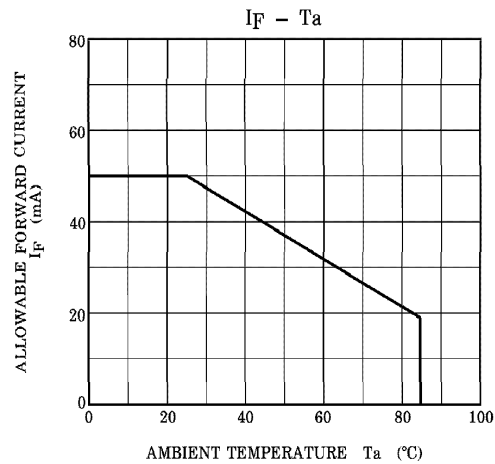
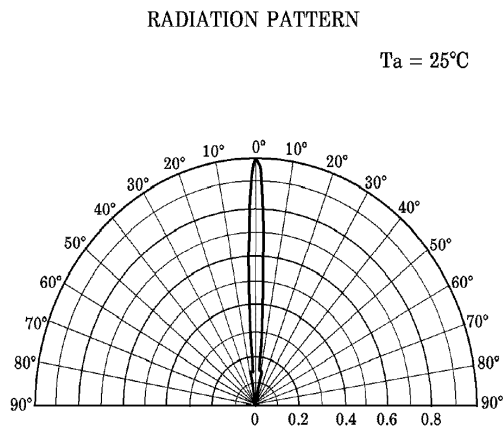
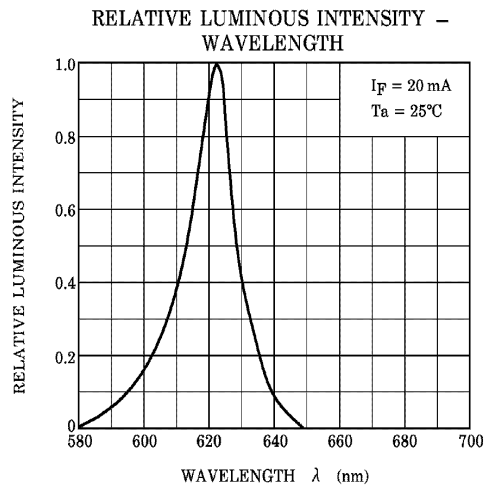
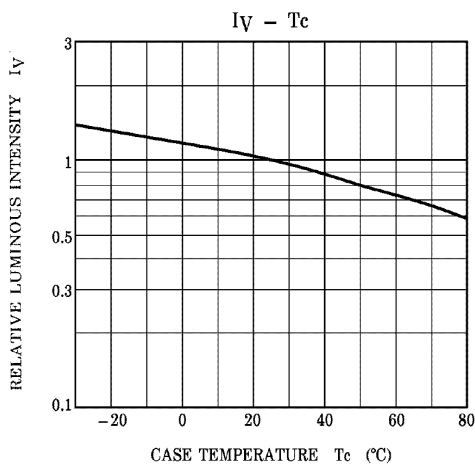
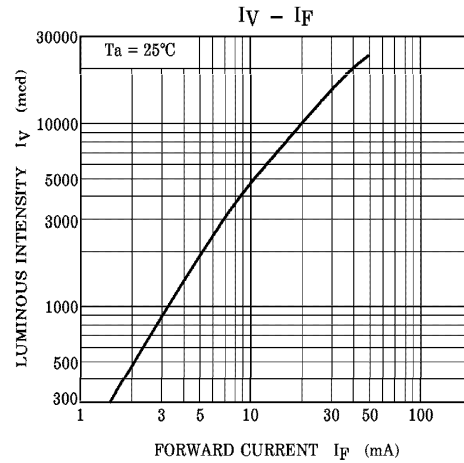
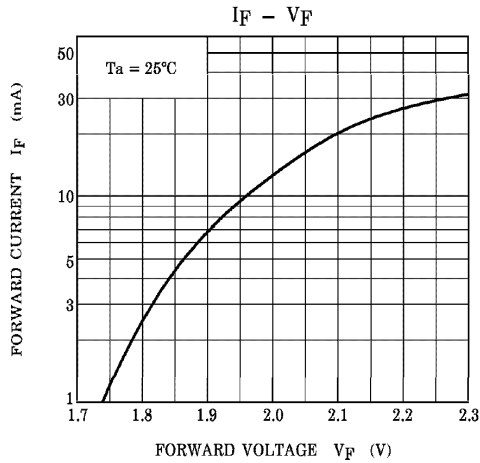
TLOH180P Graphs



TLRH180P Graphs



TLSH180P Graphs



TLYH180P Graphs

