



# OptoSupply

*Light It Up*

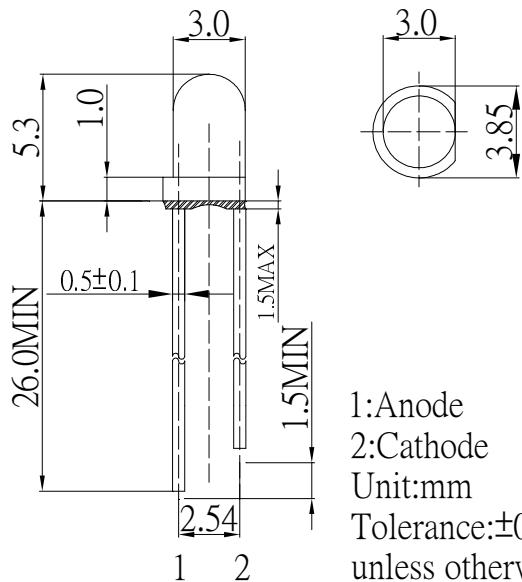
3mm Commercial Orange LED

OS5OAA3131A

## ■Features

- High Luminous LEDs
- 3mm Round Standard Directivity
- UV Resistant Epoxy
- Water Clear Type

## ■Outline Dimension



1:Anode  
2:Cathode  
Unit:mm  
Tolerance: $\pm 0.20\text{mm}$   
unless otherwise noted

## ■Applications

- Electronic Signs And Signals
- Small Area Illuminations
- Back Lighting
- Other Lighting

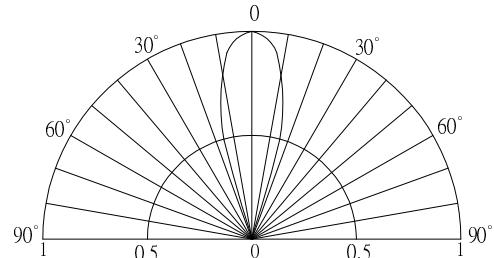
## ■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I <sub>F</sub>	50	mA
Pulse Forward Current#	I <sub>FP</sub>	120	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	130	mW
Operating Temperature	T <sub>opr</sub>	-30 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-40~ +100	°C
Lead Soldering Temperature	T <sub>sol</sub>	260°C/5sec	-

#Pulse width Max.10ms Duty ratio max 1/10

## ■Directivity



## ■Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	V <sub>F</sub>	I <sub>F</sub> =20mA	1.8	2.1	2.6	V
DC Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	10	μA
Domi. Wavelength*2	λ <sub>D</sub>	I <sub>F</sub> =20mA	600	605	610	nm
Luminous Intensity*3	I <sub>V</sub>	I <sub>F</sub> =20mA	15000	20000		mcd
50% Power Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =20mA	-	30	-	deg

\*1 Tolerance of measurements of forward voltage is  $\pm 0.1\text{V}$

\*2 Tolerance of measurements of dominant wavelength is  $\pm 1\text{nm}$

\*3 Tolerance of measurements of luminous intensity is  $\pm 15\%$

## LED & Application Technologies





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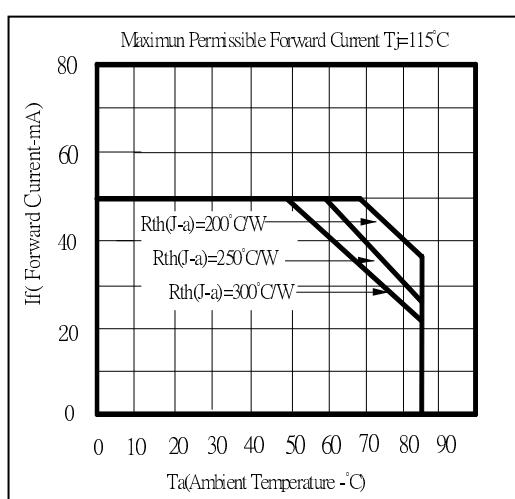
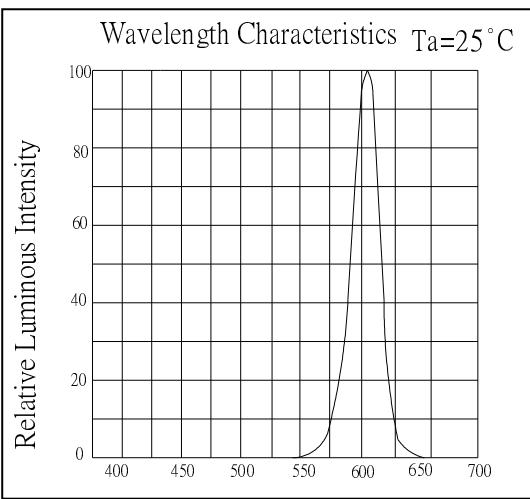
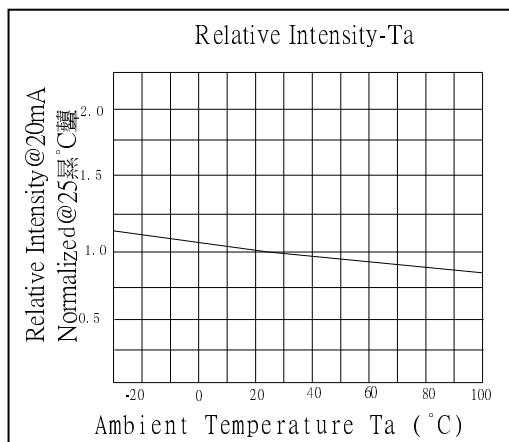
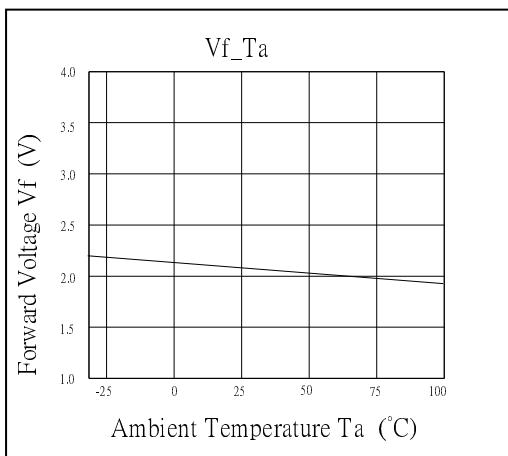
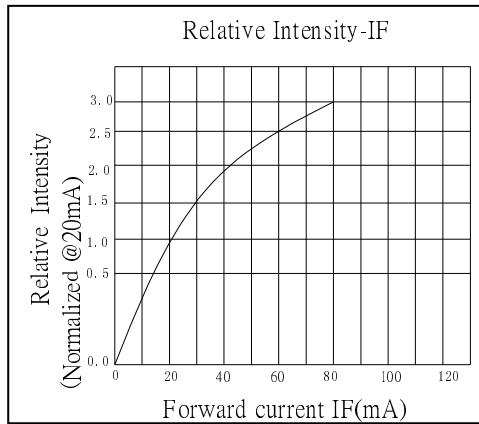
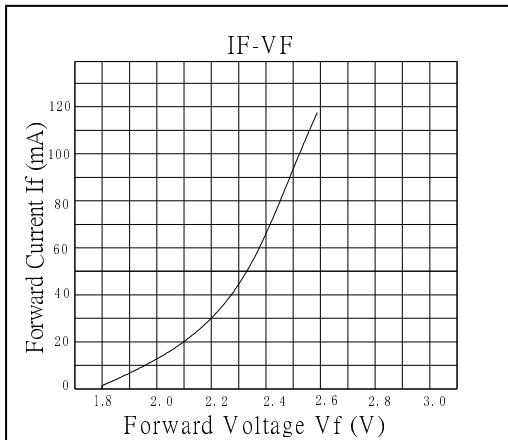
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## AlGaInP LED

### TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES



**LED & Application Technologies**



**REACH**  
The new EU chemicals legislation

