



OptoSupply

Light It Up

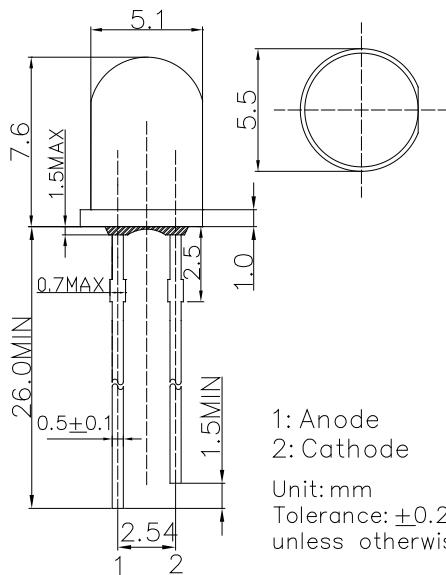
5mm Infrared LED

OSI3CA5L31A

■Features

- High Radiant Power LEDs
- 5mm Standard Directivity
- UV Resistant Epoxy
- Water Clear Type

■Outline Dimension



1: Anode
2: Cathode
Unit: mm
Tolerance: $\pm 0.2\text{mm}$
unless otherwise noted

■Applications

- IrDA
- Encoder
- Data communication
- IR camera

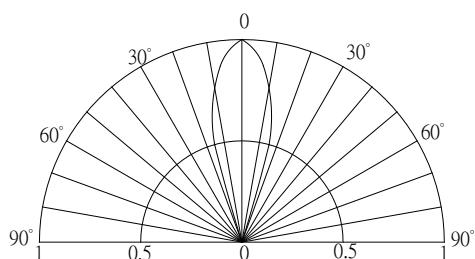
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value		Unit
DC Forward Current	I _F	70		mA
Pulse Forward Current#	I _{FP}	700		mA
Reverse Voltage	V _R	5		V
Power Dissipation	P _D	126		mW
Operating Temperature	T _{opr}	-30 ~ +85		°C
Storage Temperature	T _{stg}	-40 ~ +100		°C
Lead Soldering Temperature	T _{sol}	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 _F	I _F =50mA	-	1.6	1.8	V
DC Reverse Current	I _R	V _R =5V	-	-	10	µA
Peak Wavelength*2	λ _p	I _F =50mA	-	850	-	nm
Radiant Power*3	P _O	I _F =50mA	20	30	-	mW
Radiant Intensity*4	I _e	I _F =50mA	30	50	70	mW/Sr
50% Power Angle	2θ _{1/2}	I _F =50mA	-	30	-	deg

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

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

*3 Tolerance of measurements of Radiant power is $\pm 15\%$

*4 Tolerance of measurements of Radiant intensity is $\pm 15\%$

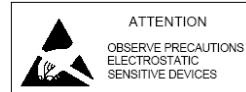
LED & Application Technologies



ISO 9001: 2008



REACH
The new EU chemicals legislation



ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES



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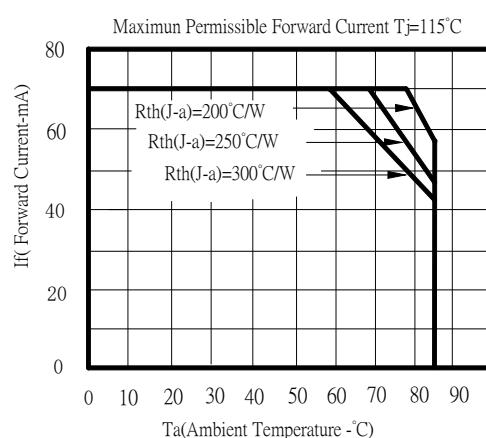
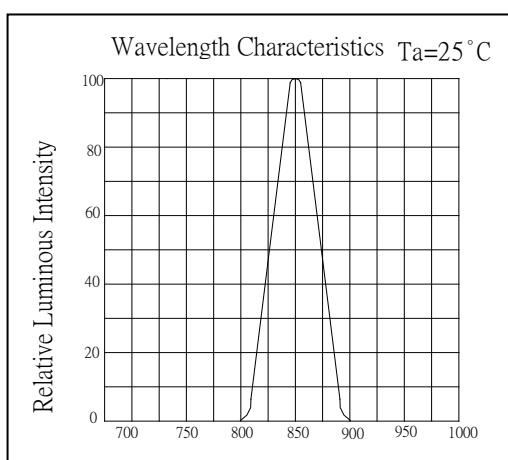
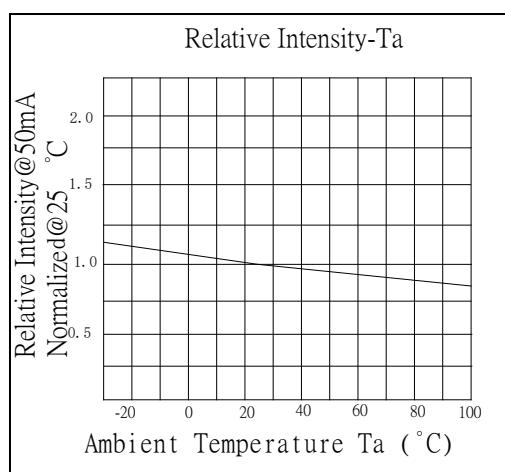
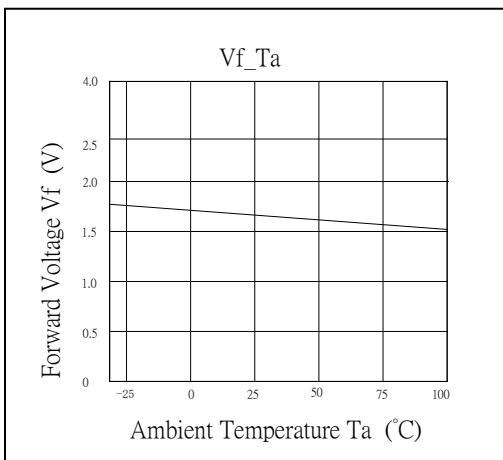
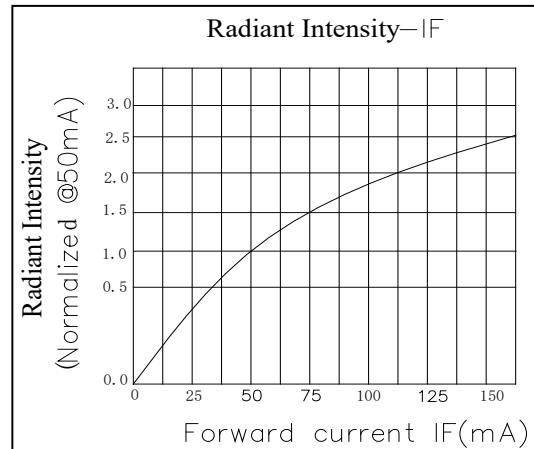
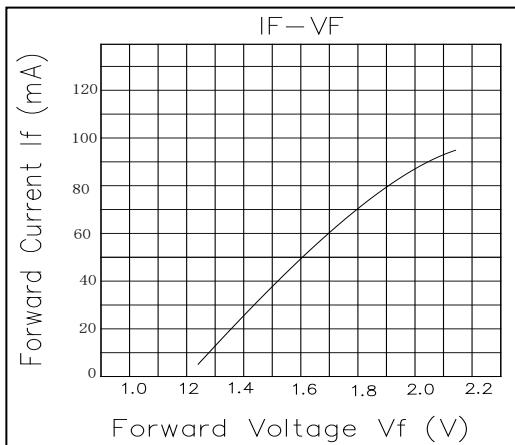
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AlGaAs LED

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES



LED & Application Technologies



REACH
The new EU chemicals legislation

