•Outline Dimension

0.1Typ.

1

7

2



• High Luminous PLCC2 Top SMD LEDs

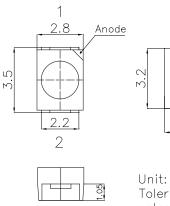
OptoSupply

Light It Up

- 3.5x2.8x1.7mm Standard Directivity •
- UV Resistant Silicone
- Water Clear Type

Applications

- Green House Applications
- Red : Blue LED Iv Ratio is 8:1* •



S 4 Solder Pad dim ension

. ₩ ō Unit: mm

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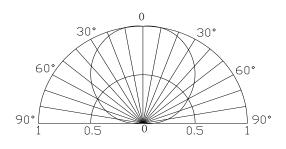
Tolerance: ± 0.20 mm unless otherwise noted

*The ratio is summarized by the photosynthesis test on

Phalaenopsis and provided from plant workshop in Taiwan.

■Absolute Maximum Rating	5	(Ta=25°C)	
Item	Symbol	Value	Unit
DC Forward Current	$I_{\rm F}$	30	mA
Pulse Forward Current#	IFP	100	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	78	mW
Operating Temperature	Topr	$-30 \sim +85$	°C
Storage Temperature	Tstg	-40~ +100	°C
Lead Soldering Temperature	Tsol	260°C/10sec	-

Directivity



2

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

•Electrical -Optical Characteristics

(Ta=	-25	\sim
(1a=	-23	U)

-Elicenteur opticul characteristics			(14=25 0)			
Item	Symbol	Condition	Min.	Тур.	Max.	Unit
DC Forward Voltage*1	V_{F}	IF=20mA	-	2.1	2.6	V
DC Reverse Current	IR	V _R =5V	-	-	10	μΑ
Peak Wavelength*2	λ_p	I _F =20mA	650	660	670	nm
Luminous Intensity*3	Iv	I _F =20mA	600	800	-	mcd
50% Power Angle	2 0 1/2	I _F =20mA	-	120	-	deg
*: T-1						

*1 Tolerance of measurements of forward voltage is±0.1V

*2 Tolerance of measurements of Peak wavelength is +1nm

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

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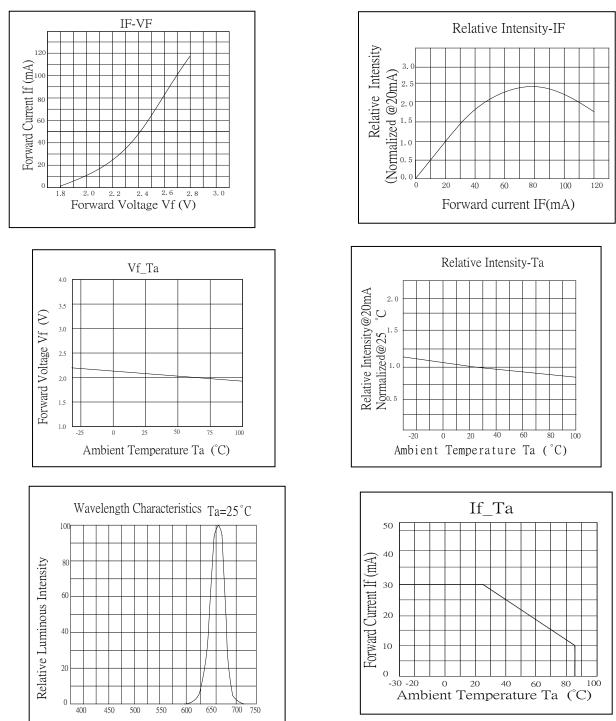


ATTENTION OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES



AlGaInP LED

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES



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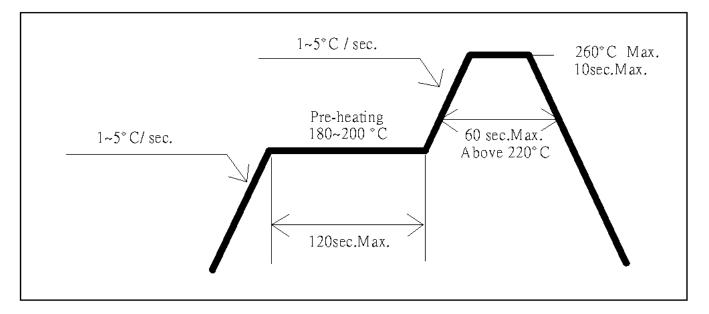




Soldering Conditions

Reflow Soldering		Har	Hand Soldering		
Pre-Heat	180 ~ 200°C				
Pre-Heat Time	120 sec. Max.		350°C Max. 3 sec. Max.		
Peak temperature	260°C Max.	Temperature			
Dipping Time	ime 10 sec. Max.		(one time only)		
Condition	Refer to Temperature-profile		(

• Reflow Soldering Condition(Lead-free Solder)



*Recommended soldering conditions vary according to the type of LED

*Although the recommended soldering conditions are specified in the above table, reflow, or hand soldering at the lowest possible temperature is desirable for the LEDs.

*A rapid-rate process is not recommended for cooling the LEDs down from the peak temperature.

•All SMD LED products are pb-free soldering available.

• Occasionally there is a brightness decrease caused by the influence of heat or ambient atmosphere during air reflow. It is recommended that the User use the nitrogen reflow method.

• Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable

double-head soldering iron should be used. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.

- Reflow soldering should not be done more than two times.
- When soldering, do not put stress on the LEDs during heating.
- After soldering, do not warp the circuit board.



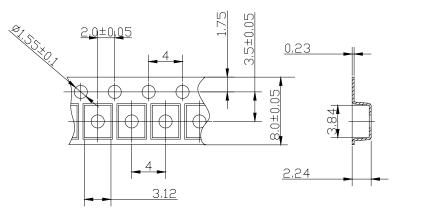


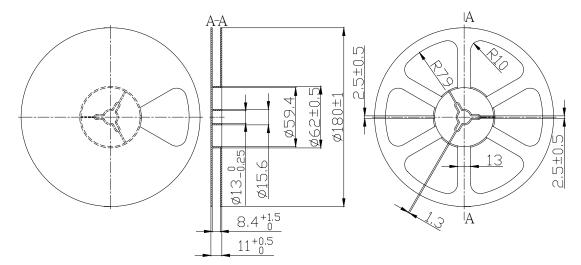




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PACKING DIMENTIONS





Notes:

1. Unit: mm

2. 2000pcs/Reel





Precautions in Use for Surface Mount Diode

■ Storage

· Storage Conditions

Before opening the package:

The LEDs should be kept at 30°C or less and 60%RH or less. The LEDs should be used within a year. When storing the LEDs, moisture proof packaging with absorbent material (silica gel) is recommended.

• After opening the package:

Soldering should be done right after opening the package (within 24hrs).

Keeping of a fraction, sealing and Temperature: 5~30°C Humidity: Less than 30%.

If the package has been opened more than 24 Hours, components should be dried for 12hrs, at 60 ± 5 °C.

 \cdot Optosupply LED electrode sections are comprised of a silver plated copper alloy. The silver surface may be affected by environments which contain corrosive gases and so on. Please avoid conditions which may cause the LED to corrode, tarnish or discolor. This corrosion or discoloration may cause difficulty during soldering operations. It is recommended that the User use the LEDs as soon as possible.

 \cdot Please avoid rapid transitions in ambient temperature, especially in high humidity environments where condensation can occur.

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