

OSCE4LS1C1A

0.1Typ.

Features

- High Luminous PLCC2 Top SMD LEDs
- 3.5x2.8x1.9mm Standard Directivity
- Long Lifetime Operation
- Yellow Diffused Type

Applications

- Backlighting (switches, keys, displays, illuminated advertising etc.)
- Substitution of Micro Incandescent Lamps
- Reading Lamps / Emergency Lighting
- Marker lights (e.g. steps, exit ways, etc.)
- Other Lighting

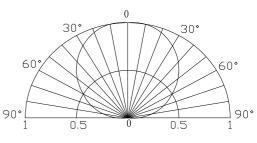
Absolute Maximum Rating

	(10 20 0)	
Symbol	Value	Unit
$I_{\rm F}$	30	mA
\mathbf{I}_{FP}	100	mA
VR	5	V
PD	108	mW
Topr	-30 ~ +85	°C
Tstg	-40~ +100	°C
Tsol	260°C/5sec	-
	IF IFP VR PD Topr Tstg	Symbol Value IF 30 IFP 100 VR 5 PD 108 Topr -30 ~ +85 Tstg -40~ +100

(Ta=25°C)

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Directivity



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

Electrical -Optical Characteristics

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
DC Forward Voltage	$V_{\rm F}$	IF=20mA	2.8	3.1	3.6	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μΑ
Luminous Flux	$\Phi \mathbf{v}$	IF=20mA	4.5	4.9	-	lm
Chromaticity	х	IF=20mA	-	0.386	-	
Coordinates*	у	IF=20mA	-	0.275	-	
50% Power Angle	201/2	I _F =20mA	-	120	-	deg

*1 Tolerance of measurements of chromaticity coordinate is $\pm 10\%$

*2 Tolerance of measurements of luminous flux is $\pm 15\%$

*3 Tolerance of measurements of forward voltage is $\pm 0.1 V$

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•Outline Dimension

Cathode

2.8

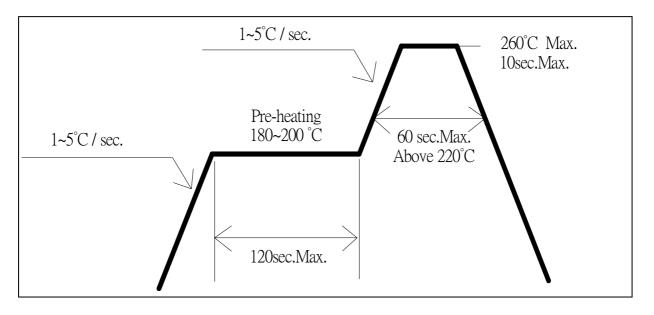


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Soldering Conditions

Reflow Soldering		Har	Hand Soldering		
Pre-Heat	180 ~ 200°C				
Pre-Heat Time	me 120 sec. Max.		350°C Max.		
Peak temperature	260°C Max.	Temperature	3 sec. Max.		
Dipping Time	10 sec. Max.	Soldering time	(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 a

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.



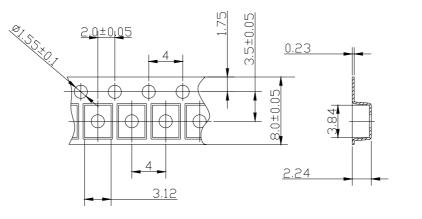
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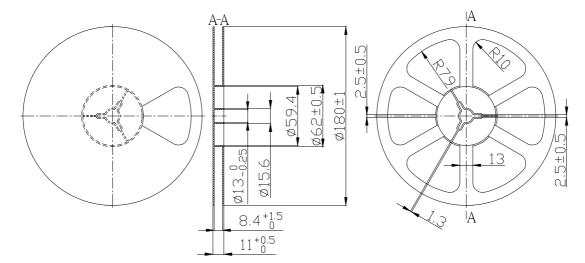


3.5x2.8x1.9mm Peach SMD LED

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PACKING DIMENTIONS





Notes:

1. Unit: mm

2. 2000pcs/Reel

ISO 9001: 2008

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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: $5 \sim 30^{\circ}$ 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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