

OSCK4TS4C1A

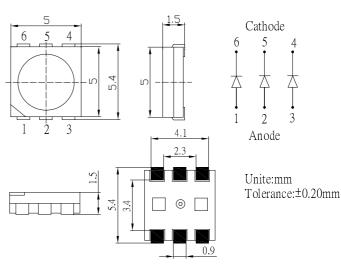
Features

• High Luminous PLCC6 Top SMD LEDs

- 5.0x5.0x1.5mm 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
- ٠ Marker lights (e.g. steps, exit ways, etc.)
- Other Lighting •



•Outline Dimension

Back View

■Absolute Maximum Rating		(Ta=25℃)		
Item	Symbol	Value	Unit	
DC Forward Current	$\mathbf{I}_{\mathbf{F}}$	80	mA	
Pulse Forward Current*	$I_{\rm FP}$	120	mA	
Reverse Voltage	VR	5	V	
Power Dissipation	PD	288	mW	
Operating Temperature	Topr	-30 ~ +85	°C	
Storage Temperature	Tstg	-40~ +100	°C	

■Absolute Maximum Rating

*Pulse width	Max 10ms	Duty ratio max	1/10
"Pulse widu	INIAX. I UIIIS	Duty ratio max	1/10

Lead Soldering Temperature

Electrical -Optical Characteristics (Ta=25°C) Condition Min. Item Symbol Typ.

Unit Max.

260°C/5sec

Tsol

	•			•1		
DC Forward Voltage	V_{F}	I _F =60mA	2.8	3.2	3.6	V
DC Reverse Current	IR	V _R =5V	-	-	30	μA
Luminous Flux	Φv	IF=60mA	20	22.5	-	lm
Chromaticity	Х	IF=60mA	-	0.34	-	
Coordinate*	У	IF=60mA	-	0.37	-	
50% Power Angle	201/2	IF=60mA	-	120	-	deg
w T 1 C			1	100		

*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±0.1V

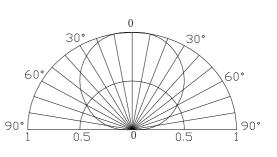
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Directivity



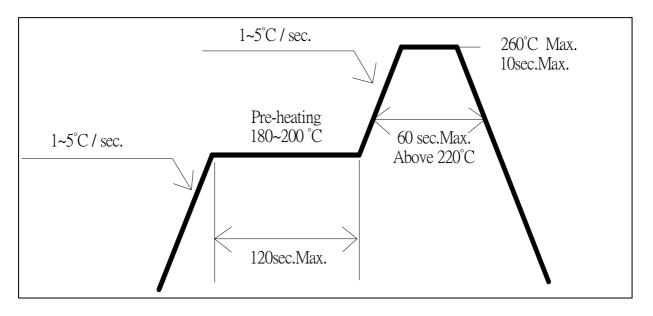


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Soldering Conditions

	Reflow Soldering	Hai	nd Soldering	
Pre-Heat	180 ~ 200°C		350°C Max. 3 sec. Max. (one time only)	
Pre-Heat Time	120 sec. Max.			
Peak temperature	260°C Max.	Temperature		
Dipping Time	10 sec. Max.	Soldering time		
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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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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