

EN: This Datasheet is presented by the manufacturer.

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OSR5PTS4C1A

Features

• High Luminous PLCC6 Top SMD LEDs

- 5.0x5.0x1.5mm Standard Directivity
- ٠ Superior Weather-resistance
- UV Resistant Epoxy
- ٠ Water Clear Type

Applications

- Backlighting (switches, keys, etc.)
- Marker lights (e.g. steps, exit ways, etc.)
- Signal and Channel Letter
- Marker lights (e.g. steps, exit ways, etc.)
- Other Lighting

Absolute Maximum Rating

	-	(10 20 0)	
Item	Symbol	Value	Unit
DC Forward Current	$I_{\rm F}$	90	mA
Pulse Forward Current*	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	234	mW
Operating Temperature	Topr	-30 ~ +85	°C
Storage Temperature	Tstg	-40~ +100	°C
Lead Soldering Temperature	Tsol	260°C/5sec	-

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

•Electrical -Optical Characteristics

(Ta=25℃)	
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(Ta=25°C)

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
DC Forward Voltage	$V_{\rm F}$	I _F =60mA	1.8	2.1	2.6	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μΑ
Domi. Wavelength*	λ_{D}	I _F =60mA	620	625	630	nm
Luminous Intensity*	Iv	I _F =60mA	1560	1900	-	mcd
50% Power Angle	201/2	I _F =60mA	-	120	-	deg

*1 Tolerance of dominant wavelength is ± 1 nm

*2 Tolerance of luminous intensity is $\pm 15\%$

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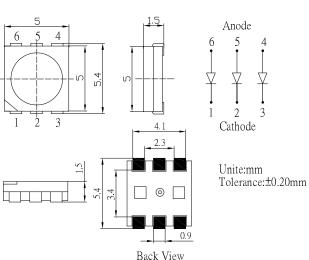




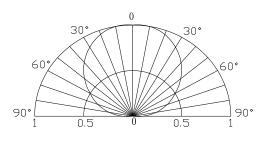




•Outline Dimension



Directivity





5x5x1.5mm Premium Red Top SMD LED

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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: 5~40°C Humidity: Less than 30%.

If the package has been opened more than 1 week or the color of desiccant changes, components should be dried for 10-12hrs, at 60 ± 3 °C.

• 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.

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

Reflow Soldering		Ha	Hand Soldering		
Pre-Heat	180 ~ 200°C				
Pre-Heat Time	120 sec. Max.		250°C May		
Peak temperature	260°C Max.	Temperature	350°C Max. 3 sec. Max.		
Dipping Time	5 sec. Max.	Soldering time	(one time only)		
Condition	Refer to Temperature-profile				

Soldering Conditions

*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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