

OSXXXXS1C1A-12V

■ Outline Dimension

Features

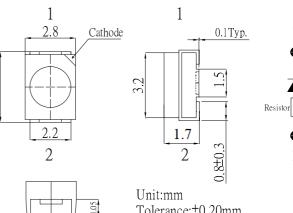
- High Luminous PLCC2 Top SMD LEDs
- 3.5x2.8x1.7mm Standard Directivity .
- UV Resistant Silicone
- Integral Current Limiting Resistor
- TTL Compatible (Requires No External Current Limiter With 12Volt ٠ Supply)
- Cost Effective (Saves Space and Resistor Cost)
- MSL: 5a

Applications

- Status Indicators
- Other Lighting

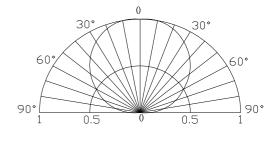
■ Absolute Maximum Rating

	-	•	
Item	Symbol	Value	Unit
DC Forward Voltage	$V_{\rm F}$	15	V
Reverse Voltage	VR	12	V
Power Dissipation	PD	225	mW
Operating Temperature	Topr	-30 ~ +85	°C
Storage Temperature	Tstg	-40~ +100	°C
Lead Soldering Temperature	Tsol	260°C/10sec	-



Tolerance:±0.20mm unless otherwise noted

■ Directivity



■ Electrical -Optical Characteristics

(Ta=25°C) $I_F(mA)^*$ Iv(mcd)* $\lambda D(nm)^*$ 201/2(deg) Min Typ. Max Min. Max. Min. Part Number Color Typ. Typ. Max. Typ. $V_F = 12V$ $V_F = 12V$ OSW5DLS1C1A-12V White W 10 15 750 1120 X=0.27, Y=0.28 (Typ.10000K) _ 120 OSM5DLS1C1A-12V Warm White Μ 10 15 1120 750 _ X=0.45, Y=0.41(Typ.3000K) 120 _ K OSK5DLS1C1A-12V 10 15 X=0.45, Y=0.17 Pink 150 220 120 -_ OSB5SAS1C1A-12V Blue В 10 15 150 220 465 470 475 120 --PG OSG5DAS1C1A-12V Pure Green 10 15 750 1120 525 530 120 _ _ 520 OSY5RUS1C1A-12V Yellow Y 10 100 590 595 15 68 585 120 _ -OSO5JAS1C1A-12V 0 10 15 100 600 605 120 Orange 68 610 _ _ OSR5RUS1C1A-12V 15 Red R 10 68 100 620 625 630 120

*1 Tolerance of measurements of Domi. wavelength is +1nm

*2 Tolerance of measurements of chromaticity coordinates is $\pm 10\%$

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

*4 Tolerance of measurements of forward voltage is +0.1V

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(Ta=25°C)

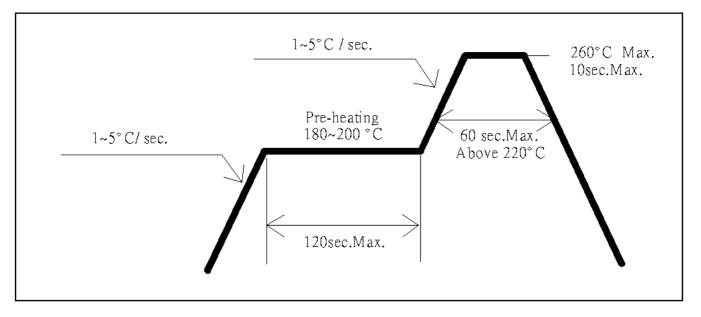


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Soldering Conditions

Reflow Soldering		Ha	Hand Soldering	
Pre-Heat	180 ~ 200°C			
Pre-Heat Time	120 sec. Max.		350°C Max. 3 sec. Max. (one time only)	
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.



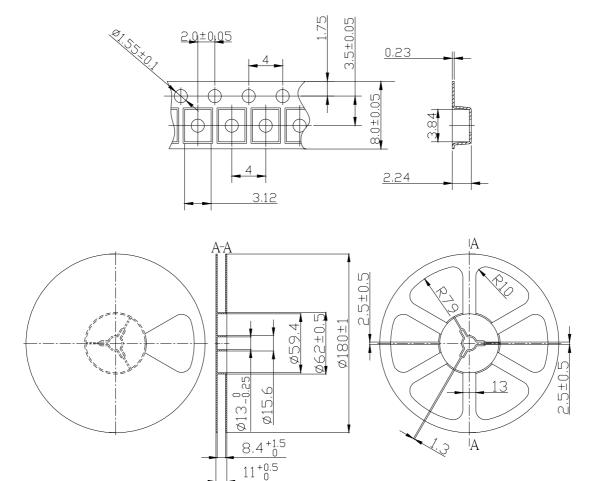






3.5x2.8x1.7mm 12V Resistor SMD LED OSXXXXS1C1A-12V

PACKING DIMENTIONS



Notes:

1. Unit: mm

2. 2000pcs/Reel





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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 $60\pm5^{\circ}$ 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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