

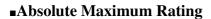
OSRP1206C1F VER.A.2.1

Features

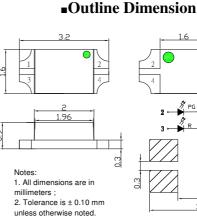
- **Bi-Color**
- Super high brightness of surface mount LED
- Water Clear Flat Mold
- Compact package outline (LxWxT) of 3.2mm x 1.6mm x 0.9mm
- Compatible to IR reflow soldering.

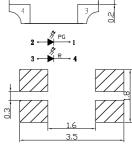
Applications

- Backlighting (switches, keys, etc.)
- Marker lights (e.g. steps, exit ways, etc.)



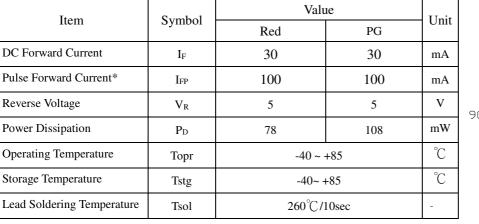
(Ta=25℃)

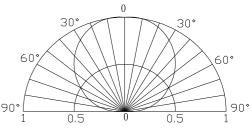




Recommended Soldering Pattern (Units : mm)

Directivity





*Pulse width Max 0.1ms, Duty ratio max 1/10

■ Electrical -Optical Characteristics

2θ1/2(deg) $V_F(V)$ $I_R(\mu A)$ Iv(mcd) $\lambda D(nm)$ Min. Max. Max. Min. Тур. Max. Min. Typ. Max. Тур. Part Number Color Тур. I_F=20mA $V_R=5V$ I_F=20mA Red HR 1.8 2.1 2.6 10 620 100 625 630 120 _ _ OSRG1206C1F PG Pure green 2.6 3.1 3.6 10 _ 350 -515 525 530 120

(Ta=25℃)

*1 Tolerance of measurements of dominant wavelength is +1nm

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

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

LED & Application Technologies



ATTENTION OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES



3.2 x 1.6 x 0.9mm Red & Pure green SMD

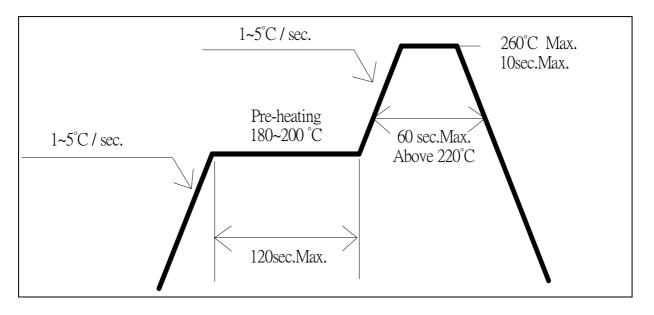
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Soldering Conditions

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

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.

