

OSRP1206C1F

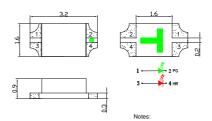
•Outline Dimension

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.

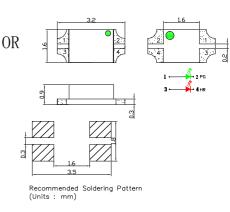
Applications

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



(Ta=25℃)

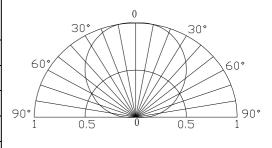
-, nce is @0.10 m 2 Tole



■Absolute Maximum Rating

Item	Course a 1	Valı	Unit		
пеш	Symbol	HR	PG	Unit	
DC Forward Current	\mathbf{I}_{F}	20	20	mA	
Pulse Forward Current#	\mathbf{I}_{FP}	100	100	mA	
Reverse Voltage	VR	5	5	V	
Power Dissipation	PD	46	66	mW	
Operating Temperature	Topr	-40 ~	+85	°C	
Storage Temperature	Tstg	-40~ -	°C		
Lead Soldering Temperature	Tsol	260°C7	-		

Directivity



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

Electrical -Optical Characteristics

	Color		$V_{\mathrm{F}}\left(\mathrm{V} ight)$		$I_R(\mu A)$	Iv(mcd)		λD(nm)		201/2(deg)				
Part Number			Min.	Тур.	Max.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Тур.	
			I _F =5mA V ₁			V _R =5V	I _F =5mA							
0000120/015	Red	HR		-	1.7	2.3	10	-	30	-	620	625	630	120
OSRP1206C1F	Pure Green	PG		-	1.7	3.3	10	-	100	-	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

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ATTENTION



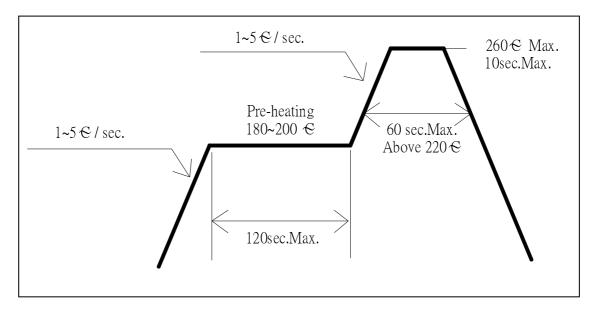
3.2 x 1.6 x 0.9mm Red & Pure Green Chip LED

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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.			
Dipping Time	10 sec. Max.	Soldering time	3 sec. Max.			
Condition	Refer to Temperature-profile		(one time only)			

• 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.





3.2 x 1.6 x 0.9mm Red & Pure Green Chip LED



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Cautions:

1. After open the package, the LED's floor life is 4 Weeks under 30° C or less and 60%RH or less(MSL:2a).

2. Heat generation must be taken into design consideration when using the LED.

3. Power must be applied resistors for protection, over current would be caused the optic damage to the devices and wavelength shift.

4. Manual tip solder may cause the damage to Chip devices, so advised that heat of iron should be lower than 15W with temperature control under 5 seconds at 230-260 deg. C. (The device would be got damage in re working process, recommended under 5 seconds at 230-260 deg. C)

5. All equipment and machinery must be properly grounded. It is recommended to use a wristband or anti-electrostatic glove when handing the LED.

6. Use IPA as a solvent for cleaning the LED. The other solvent may dissolve the LED package and the epoxy, Ultrasonic cleaning should not be done.

7. Damaged LED will show unusual characteristics such as leak current remarkably increase, turn-on voltage becomes lower and the LED get unlight at low current.

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