

3.2x1.25 x1.1mm Reverse Mount Red & Pure Green Chip LED

OSRP1205C1N

■Features

- Bi-Color
- Super high brightness of reverse mount LED
- Compact package outline (L x W x T) of 3.2mm x 1.25mm x 1.1mm
- Compatible to IR reflow soldering.
- Water Clear Type

Applications

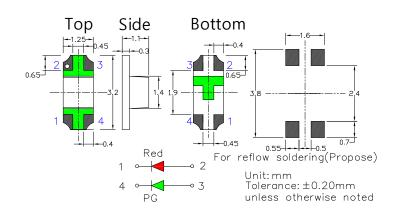
- Backlighting (switches, keys, etc.)
- Marker lights (e.g. steps, exit ways, etc.)

■Absolute Maximum Rating

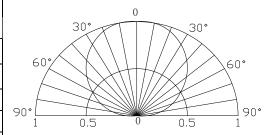
(Ta=25°C)

Itam	C11	Va	T I :4		
Item	Symbol	PG	Red	Unit	
DC Forward Current	I_{F}	20	20	mA	
Pulse Forward Current#	${ m I}_{ m FP}$	100	100	mA	
Reverse Voltage	V_R	5	5	V	
Power Dissipation	P_{D}	66	46	mW	
Operating Temperature	Topr	-40 ~ +85		$^{\circ}\mathbb{C}$	
Storage Temperature	Tstg	-40 ∼ +85			
Lead Soldering Temperature	Tsol	260°C	-		

■Outline Dimension



Directivity



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

■Electrical -Optical Characteristics

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		V _F (V)		$I_R(\mu A)$	Iv(mcd)		λD(nm)			2θ1/2(deg)			
Part Number	Color		Min.	Тур.	Max.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Тур.
			I _F =5mA		V _R =5V	I _F =5mA							
OCD D1205 C1N	Red		-	1.7	2.3	10	30	50	-	620	625	630	120
OSRP1205C1N	Pure Green		-	2.7	3.3	10	150	200	-	515	520	530	120

^{*1} Tolerance of measurements of dominant wavelength is ±1nm

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^{*2} Tolerance of measurements of luminous intensity is ±15%

^{*3} Tolerance of measurements of forward voltage is±0.1V



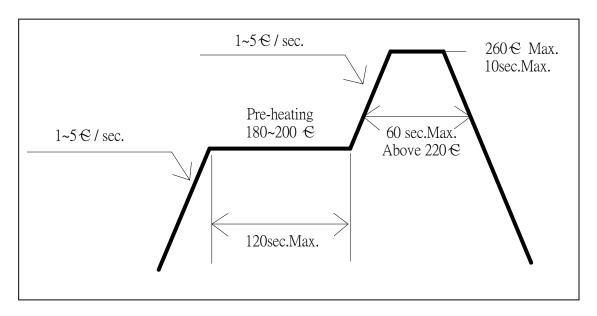
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■ Soldering Conditions

	Reflow Soldering	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.

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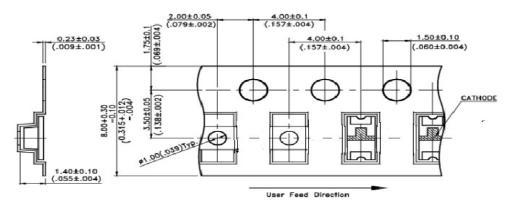


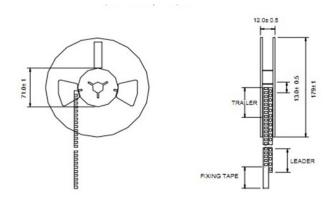
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■Reel & Tape Dimensions

- 1. Quantity:3000pcs/Reel
- 2. Note: The tolerances unless mentioned is ± 0.1 mm, Unit: mm





■ Cautions

- 1. After open the package, the LED´s floor life is 4 Weeks under 30℃ 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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