

OSRB1204C1E

•Outline Dimension

Features

- **Bi-Color**
- Super high brightness of surface mount LED •
- Compact package outline (L x W x T) of 3.2mm x 1.0mm x1.5mm
- Compatible to IR reflow soldering.
- Water Clear Flat Mold .

Item

DC Forward Current

Reverse Voltage

Power Dissipation

Operating Temperature

Lead Soldering Temperature

Storage Temperature

Pulse Forward Current#

Applications

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

Symbol

 \mathbf{I}_{F}

IFP

VR

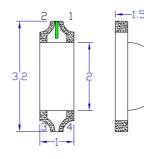
PD

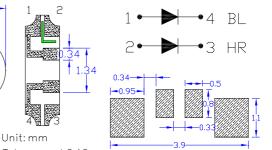
Topr

Tstg

Tsol

Absolute Maximum Rating





Tolerance: ±0.10mm Recommend Soldering Pattern unless otherwise note(Units:mm)

(Ta=25°C)

HR

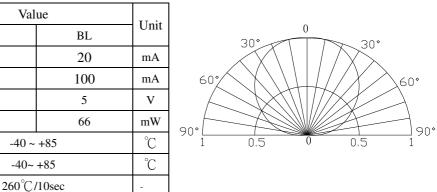
20

100

5

46

Directivity



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

(Ta=25℃)

■Electrical -Op	otical Chara	cteri	isti	cs	(Та	a=25℃)							
				$V_{\mathrm{F}}\left(\mathrm{V} ight)$			$I_{R}(\mu A)$	Iv(mcd)		$\lambda D(nm)$			201/2(deg)	
Part Number	Color			Min.	Тур.	Max.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Тур.
					IF=5mA		V _R =5V				I _F =5mA			
OSRB1204C1E	Red	HR		-	1.7	2.3	10	-	30	-	620	625	630	120
	Blue	BL		-	1.7	3.3	10	-	50	-	460	465	475	120

*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



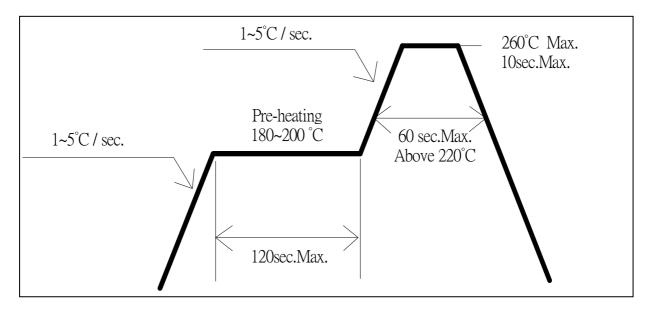


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Soldering Conditions

	Reflow Soldering	Har	Hand Soldering			
Pre-Heat	180 ~ 200°C					
Pre-Heat Time	120 sec. Max.		350°C Max. 3 sec. Max.			
Peak temperature	260°C Max.	Temperature				
Dipping Time	10 sec. Max.	Soldering time				
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.

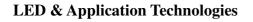
•All SMD LED products are pb-free soldering available.

• 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

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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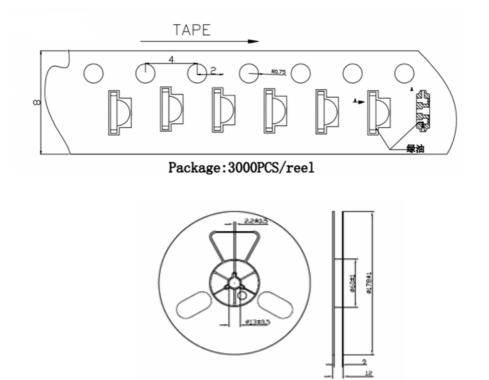


3.2x1.0 x1.5mm Red & Blue Chip LED

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■Packaging

1. Reel & Tape Dimensions (3000PCS/Reel)



Notes: All dimensions are in millimeters

2. Bag packaging

