

OSTB0805C1C-A

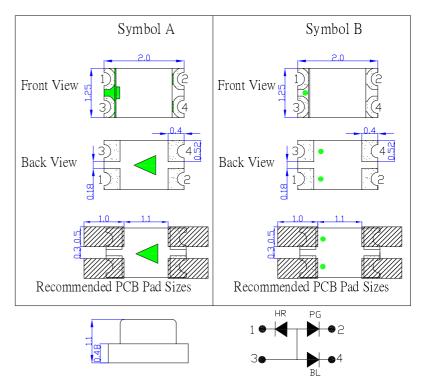
■Features

- · Full-Color
- · Super high brightness of surface mount LED
- · Water Clear Flat Mold
- Compact package outline (LxWxT) of 2.0mm x 1.25mm x 1.1mm
- · Compatible to IR reflow soldering.

■Applications

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

■Outline Dimension

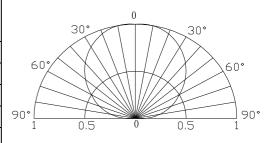


Notes: 1.All dimensions are in millimeters 2.Tolerance is ± 0.10 mm unless otherwise noted

■Absolute Maximum Rating

Item	Symbo	Valu	Unit		
nem	1	R	G/B	Oillt	
DC Forward Current	I_{F}	20	20	mA	
Pulse Forward Current#	I_{FP}	100	100	mA	
Reverse Voltage	V _R	5	5	V	
Power Dissipation	P_D	46	66	mW	
Operating Temperature	Topr	-40 ~	$^{\circ}\!\mathbb{C}$		
Storage Temperature	Tstg	-40~	$^{\circ}\!\mathbb{C}$		
Lead Soldering Temperature	Tsol	260°C	-		
	Tsol	260°C	-		

Directivity



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

Electrical -Optical Characteristics

(Ta=25℃)

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	Color		$V_{F}(V)$		$I_R(\mu A)$	Iv(mcd)		λD(nm)		2θ1/2(deg)				
Part Number			Min.	Тур.	Max.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Тур.	
			I _F =5mA		V _R =5V	I _F =5mA								
OSTB0805C1C-A	Blue	В	•	-	2.7	3.3	10	30	50	-	460	465	475	120
	Pure Green	G	•	-	2.7	3.3	10	70	120	-	520	525	530	120
	Red	R		-	1.7	2.3	10	25	45	-	620	625	630	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 ± 0.1 V



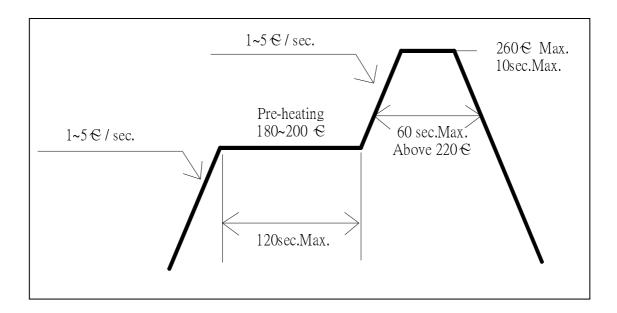
2.0 x 1.25 x 1.1mm Red & Pure Green & Blue Chip LED

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Soldering Conditions

	Reflow Soldering	Hand Soldering				
Pre-Heat	180 ~ 200°C					
Pre-Heat Time	120 sec. Max.		350°C Max.			
Peak temperature	260°C Max.	Temperature	3 sec. Max.			
Dipping Time	10 sec. Max.	Soldering time	(one time only)			
Condition	Refer to Temperature-profile		(end and 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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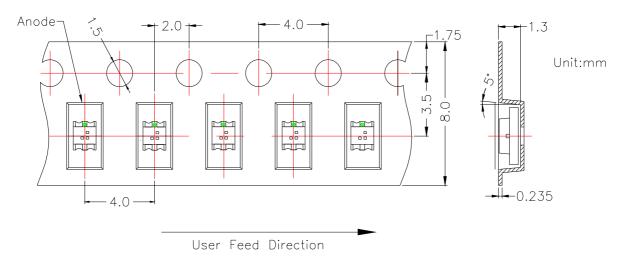


2.0 x 1.25 x 1.1mm Red & Pure Green & Blue Chip LED

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■ Taping and Orientation.

1. Quantity: 3000pcs/Reel



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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