

2.0x1.25x0.8mm Bi-Color Flashing Chip LED 1.5Hz 1/2 Duty Cycle

OSXX0805C1S

■Outline Dimension

■Features

- Bi-Color Flashing Type
- 2.0x1.25x0.8mm(0805) standard package.
- Suitable for all SMT assembly methods.
- Compatible with infrared and vapor phase reflow solder process.
- This product doesn't contain restriction
 Substance, comply ROHS standard.
- Compatible with automatic placement equipment.

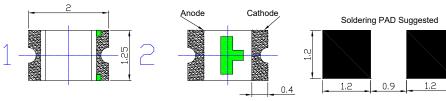
Applications

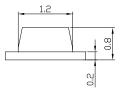
turn signals.

Automotive : Dashboards, stop lamps,

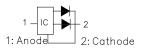
Backlighting : LCDs, Key pads advertising.

2





(Ta=25°C)

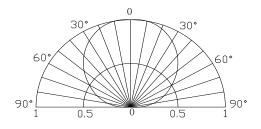


Note:
1. Unit:mm
2. Tolerance is ® 0.1m m unless otherwise noted

■Absolute Maximum Rating

Item	Symbol	Value	Unit
Power Supply	Voltage	5	V
Duty Cycle	Duty	1/2	-
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ∼ +85	°C
Lead Soldering Temperature	Tsol	260°C/10sec	-

■Directivity



■Electrical -Optical Characteristics (Ta=25°C)

1											
	$V_{F}(V)$		Fled (Hz)	Iv(mcd)		λD(nm)/CCT(K)			2θ1/2(deg)		
Emitting Color	Min.	Тур.	Max.	Тур.	Min.	Тур.	Max.	Min.	Тур.	Max.	Тур.
	$I_F=20 \mathrm{mA}$										
Red	3.0	3.5	5.0	1.5	-	100	-	620	625	630	120
Yellow	3.0	3.5	5.0	1.5	-	100	-	585	590	595	120
Blue	3.0	3.5	5.0	1.5	-	100	-	460	465	470	120
Pure Green	3.0	3.5	5.0	1.5	1	400	-	520	525	530	120
Cool White	3.0	3.5	5.0	1.5	-	330	-	CCT:	7000-20	000K	120

■Part Number

Emitting Color	Red	Yellow	Pure Green	Blue	Cool White	
Red		OSRY0805C1S	OSRP0805C1S	OSRB0805C1S	OSRW0805C1S	
Yellow	OSRY0805C1S		OSYP0805C1S	OSYB0805C1S	OSYW0805C1S	
Pure Green	OSRP0805C1S	OSYP0805C1S		OSPB0805C1S	OSPW0805C1S	
Blue	OSRB0805C1S	OSYB0805C1S	OSPB0805C1S			
Cool White	OSRW0805C1S	OSYW0805C1S	OSPW0805C1S			

- *1 Tolerance of measurements of forward voltage is ±0.1V
- *2 Tolerance of measurements of Frequency is $\pm 20\%$
- *3 Tolerance of measurements of dominant wavelength is ±1nm
- *4 Tolerance of measurements of luminous intensity is $\pm 15\%$

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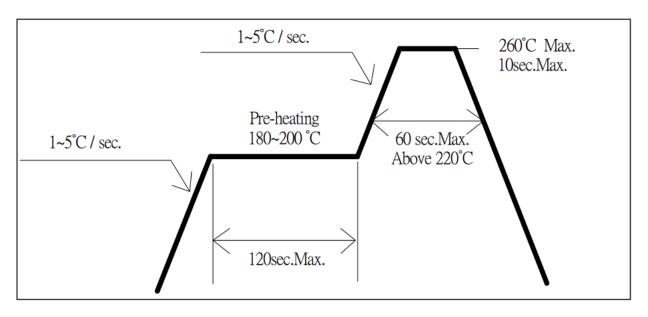
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■ Soldering Conditions

	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.









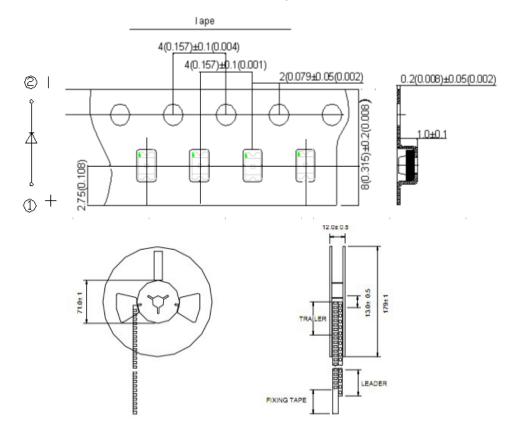


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■ Taping and Orientation

- 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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