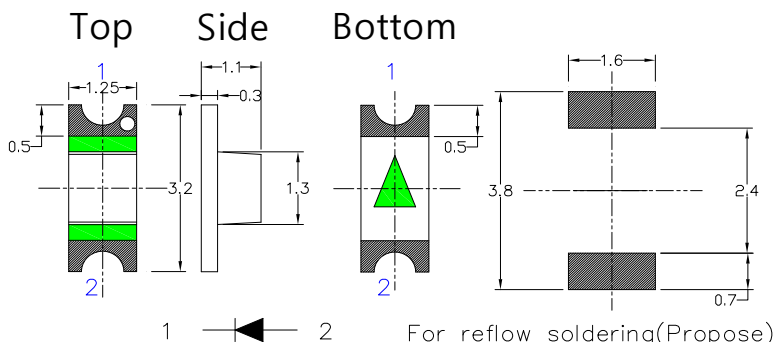


■Features

- Single chip LED
- 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

■Outline Dimension



Unit: mm
Tolerance: $\pm 0.20\text{mm}$
unless otherwise noted

■Applications

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

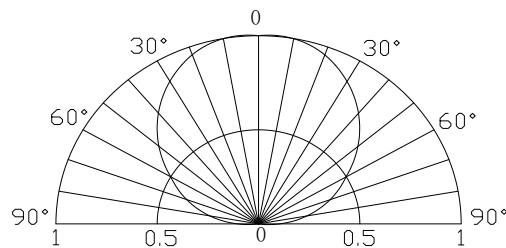
■Absolute Maximum Rating

($T_a=25^\circ\text{C}$)

Item	Symbol	Value		Unit
		W5/M5/B5/G5	G8/Y5//O5/R5	
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	68	48	mW
Operating Temperature	T_{opr}	$-40 \sim +85$		$^\circ\text{C}$
Storage Temperature	T_{stg}	$-40 \sim +85$		$^\circ\text{C}$
Lead Soldering Temperature	T_{sol}	$260^\circ\text{C}/5\text{sec}$		-

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

■Directivity



■Electrical -Optical Characteristics

($T_a=25^\circ\text{C}$)

Part Number	Color			V_F (V)			I_R (μA)	I_v (mcd)			λ_D (nm)			$2\theta_{1/2}$ (deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				$I_F=10\text{mA}$			$V_R=5\text{V}$	$I_F=10\text{mA}$			$I_F=10\text{mA}$			
OSW51205C1N	White	W5		-	2.8	3.4	10	250	350	-	8000-18000K			120
OSM51205C1N	Warm White	M5		-	2.8	3.4	10	250	350	-	2700-3300K			120
OSB51205C1N	Blue	B5		-	2.8	3.4	10	60	80	-	460	465	475	120
OSG51205C1N	True Green	G5		-	2.8	3.4	10	300	400	-	515	525	530	120
OSG81205C1N	Yellow Green	G8		-	1.8	2.4	10	15	20	-	565	570	575	120
OSY51205C1N	Yellow	Y5		-	1.8	2.4	10	60	80	-	585	590	595	120
OSO51205C1N	Orange	O5		-	1.8	2.4	10	60	80	-	600	605	610	120
OSR51205C1N	Red	R5		-	1.8	2.4	10	60	80	-	615	625	630	120

*1 Tolerance of measurements of chromaticity coordinate is $\pm 10\%$

*2 Tolerance of measurements of dominant wavelength is $\pm 1\text{nm}$

*3 Tolerance of measurements of luminous intensity is $\pm 15\%$

*4 Tolerance of measurements of forward voltage is $\pm 0.1\text{V}$



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Light It Up

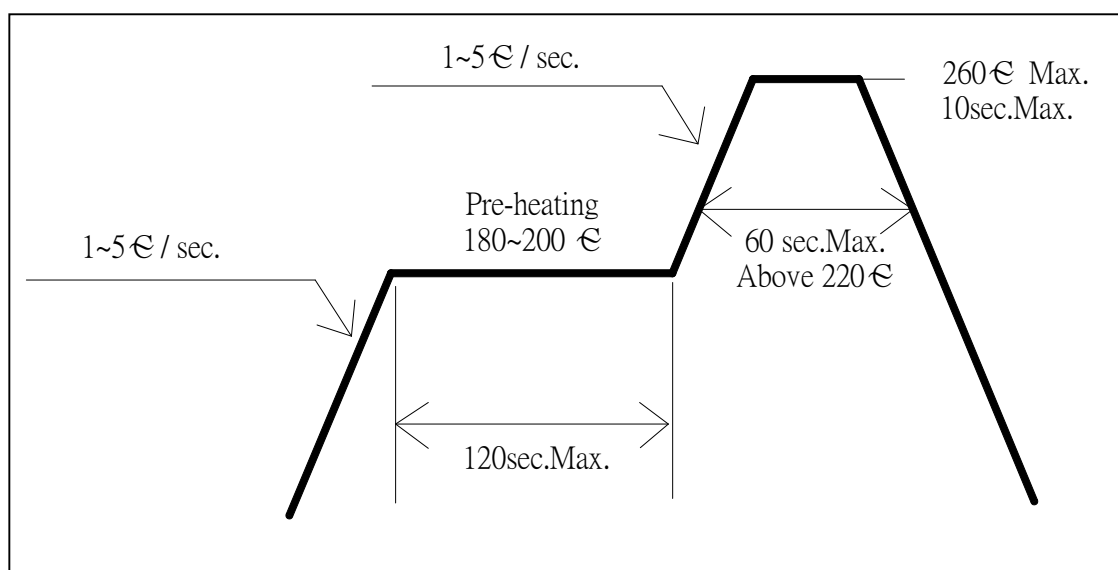
3.2x1.25 x1.1mm Reverse Mount Chip LED

OSXX1205C1N

■ Soldering Conditions

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

• 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.

LED & Application Technologies



**OSXX1205C1N**

VER D.1.0

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