

3.2x1.6 x0.8mm Chip LED

OSXX1206C1E

■Features

- · Single chip
- · Super high brightness of surface mount LED
- Compact package outline
 (L x W x T) of 3.2mm x 1.6mm x 0.8mm
- · Compatible to IR reflow soldering.

Cathode 3.2±0.2 Top Back 1. Cathode 2. Anode Unit:mm Tolerance:±0.20mm For reflow soldering(Propose) unless otherwise noted

■Outline Dimension

■Applications

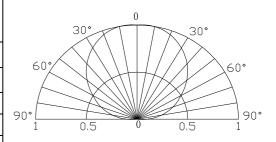
- Backlighting (switches, keys, etc.)
- Marker lights (e.g. steps, exit ways, etc.)

■Absolute Maximum Rating

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Item	Cromb of	Value				
nem	Symbol	W5/M5/K5/B5/G5	G8/Y5/O5/R5	Unit		
DC Forward Current	I_{F}	30	30	mA		
Pulse Forward Current*	I_{FP}	100	100	mA		
Reverse Voltage	V_R	5	5	V		
Power Dissipation	P_D	108	78	mW		
Operating Temperature	Topr	-40 ~ -	$^{\circ}\!\mathbb{C}$			
Storage Temperature	Tstg	-40~ -	$^{\circ}\!\mathbb{C}$			
Lead Soldering Temperature	Tsol	260°C/10sec				

■Directivity



■Electrical -Optical Characteristics

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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.	Typ.	
			I _F =20mA		V _R =5V	I _F =20mA								
OSW51206C1E	White	W5		3.0	-	3.6	10	400	450	-	X=0.29 Y=0.29		120	
OSM51206C1E	Warm White	M5		3.0	-	3.6	10	400	450	-	X:0.44, Y:0.41		120	
OSK51206C1E	Pink	K5		3.0	-	3.6	10	60	90	-	X:0.38, Y:0.18		120	
OSB51206C1E	Blue	В5		3.0	-	3.6	10	80	100	-	460	465	475	120
OSG51206C1E	True Green	G5		2.9	-	3.6	10	300	350	-	520	525	530	120
OSG81206C1E	Yellow Green	G8		1.8	-	2.6	10	20	45	-	565	570	575	120
OSY51206C1E	Yellow	Y5		1.8	-	2.6	10	60	90	-	585	590	595	120
OSO51206C1E	Orange	O5		1.8	-	2.6	10	100	120	-	600	605	610	120
OSR51206C1E	Red	R5		1.8	-	2.6	10	100	120	-	620	625	630	120

^{*1} Tolerance of measurements of chromaticity coordinate is +10%

LED & Application Technologies









http://www.optosupply.com VER A.6.1

^{*}Pulse width Max 0.1ms, Duty ratio max 1/10

^{*2} Tolerance of measurements of dominant wavelength is +1nm

^{*3} Tolerance of measurements of luminous intensity is $\pm 15\,\%$

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



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■ Cautions:

- 1. After open the package, the LED's floor life is 1 year under 30° C or less and 60%RH or less (MSL:2).
- 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.
- 8. OPTOSUPPLY will not do 4M change without advance consultation.







