

Light It Up

OSXX0802C1E

2.1x 0.6x1.0mm Side View Chip LED

■Features

- Single chip
- 2.1x0.6x1.0mm(0802) 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

Automotive: Dashboards, stop lamps,

turn signals.

Backlighting: LCDs, Key pads advertising.

0.28 1 2 MARK

■Outline Dimension

Recommended Soldering Pattern (Units: mm)

■Absolute Maximum Rating

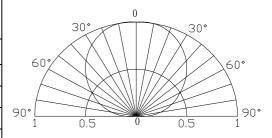
(Ta=25°C)

Value Symbo Item Unit W5/B5/G5 R5/Y5/G8/O5 1 DC Forward Current I_{F} 25 25 mA Pulse Forward Current* 100 100 I_{FP} mA V_R 5 5 V Reverse Voltage Power Dissipation 108 78 mW P_{D} $^{\circ}$ C Operating Temperature Topr -40 ~ +85 $^{\circ}$ C -40~ +85 Storage Temperature Tstg Lead Soldering Temperature Tsol 260°C/10sec

■Directivity

`1. All dimensions are in millimeters;

2. Tolerance is ±0.1mm unless otherwise noted;



■ Electrical -Optical Characteristics

(Ta=25°C)

				$V_{F}(V)$			$I_R(\mu A)$	Iv(mcd)			λD(nm)			2θ1/2(deg)
Part Number	Color	Color			Тур.	Max.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Тур.
					I _F =20mA			I _F =20mA						
OSW50802C1E	White	W5		2.8	3.0	3.4	10	300	550	-	6500K	8300K	15000K	120
OSB50802C1E	Blue	B5		2.8	3.0	3.4	10	30	70	-	460	465	475	120
OSG50802C1E	True Green	G5		2.8	3.0	3.4	10	400	700	-	518	525	530	120
OSG80802C1E	Yellow Green	G8		1.8	2.0	2.4	10	25	50	-	565	570	575	120
OSY50802C1E	Yellow	Y5		1.8	2.0	2.4	10	70	150	-	585	590	595	120
OSO50802C1E	Orange	O5		1.8	2.0	2.4	10	70	150	-	600	605	610	120
OSR50802C1E	Red	R5		1.8	2.0	2.4	10	70	150	-	617	625	630	120

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

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^{*}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 ±15%

^{*4} Tolerance of measurements of forward voltage is±0.1V



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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.







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