

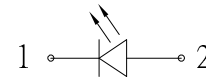
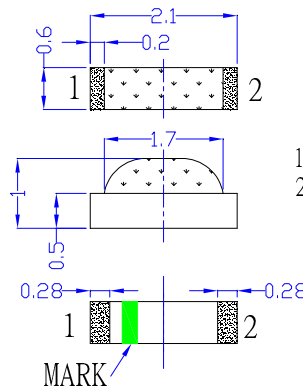
■Features

- 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.

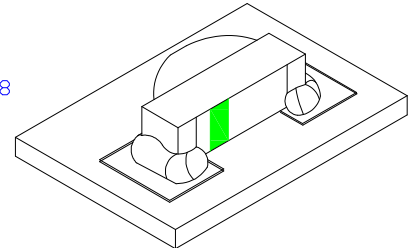
■Applications

- Automotive : Dashboards, stop lamps, turn signals.
- Backlighting : LCDs, Key pads advertising.

■Outline Dimension



1. All dimensions are in millimeters;
2. Tolerance is ± 0.1 mm unless otherwise noted;



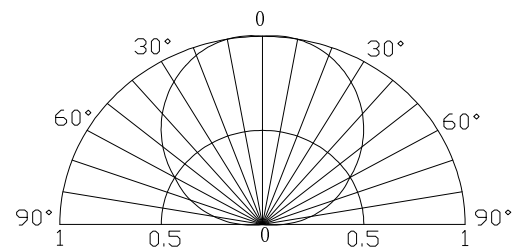
■Absolute Maximum Rating

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

Item	Symbol	Value		Unit
		WT/MT /BL/K	HR/YG /YL	
DC Forward Current	I_F	25	25	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	T_{opr}	-40 ~ +85		$^\circ\text{C}$
Storage Temperature	T_{stg}	-40~ +85		$^\circ\text{C}$
Lead Soldering Temperature	T_{sol}	260 $^\circ\text{C}$ /5sec		-

*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 θ 1/2(deg)
			Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
			$I_F=20\text{mA}$			$V_R=5\text{V}$	$I_F=20\text{mA}$						
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

Note: * V_f tolerance: $\pm 0.05\text{V}$

* Dominant wavelength tolerance: $\pm 1\text{nm}$

* Luminous intensity tolerance: $\pm 10\%$