

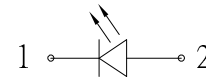
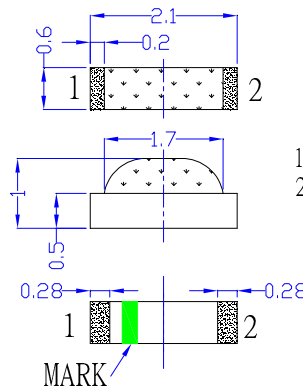
### ■Features

- 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.

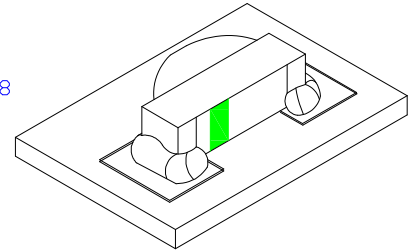
### ■Applications

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

### ■Outline Dimension



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



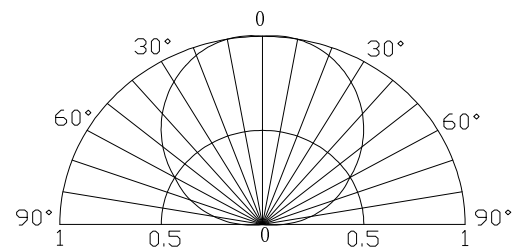
### ■Absolute Maximum Rating

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

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)			$I_R$ ( $\mu\text{A}$ )	$I_v$ (mcd)			$\lambda_D$ (nm)			2 $\theta$ 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:  $\pm 10\%$

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