

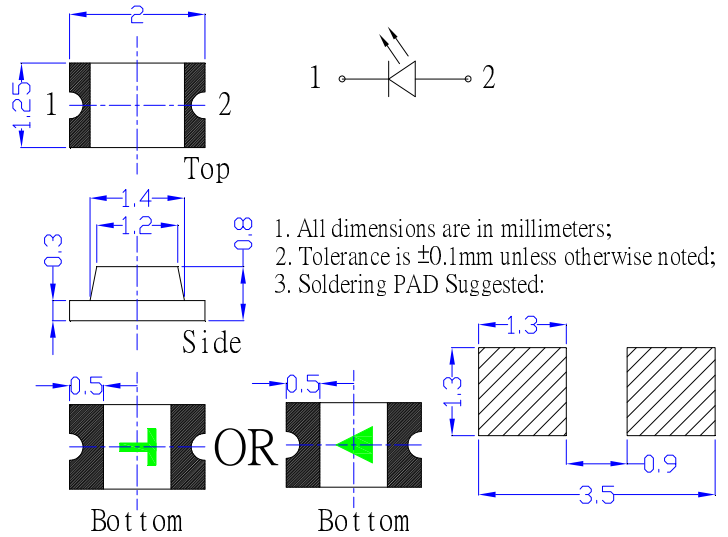
**■Features**

- Single chip
- 2.0x1.25x0.8mm(0805) 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**



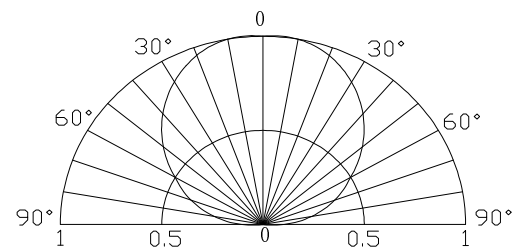
**■Absolute Maximum Rating**

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

Item	Symbo l	Value		Unit
		WT/MT /BL/K	HR/YG /YL	
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	$T_{opr}$	-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**

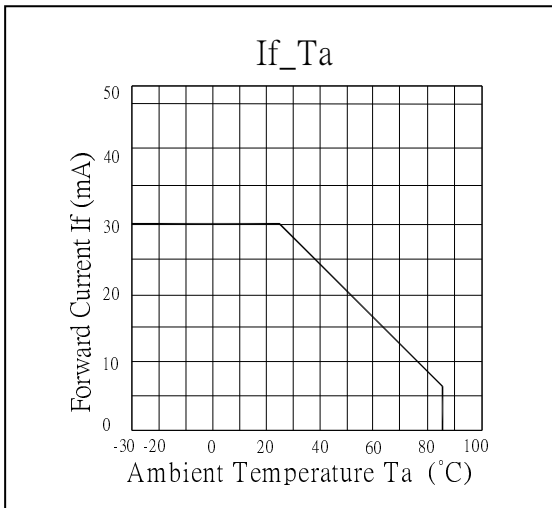
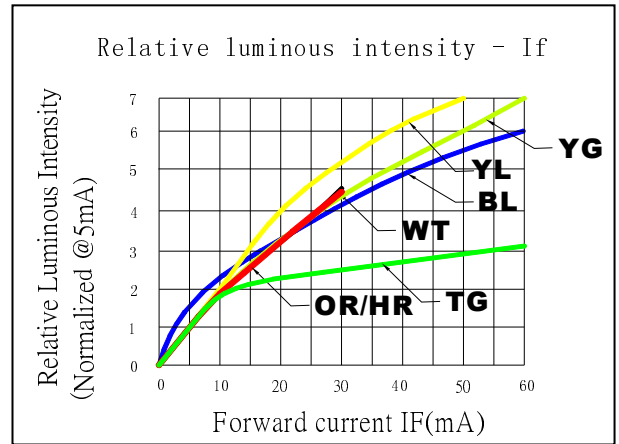
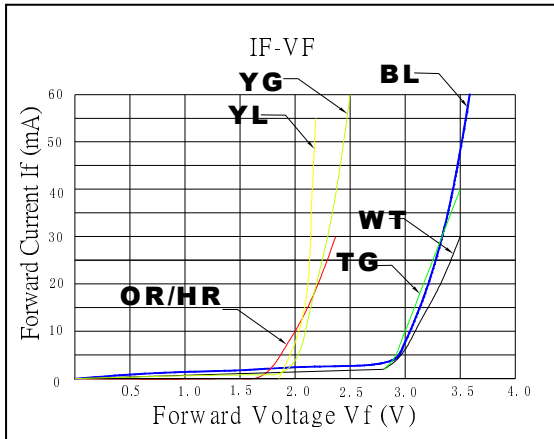
( $T_a=25^\circ\text{C}$ )

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.
			$I_F=20\text{mA}$			$V_R=5\text{V}$	$I_F=20\text{mA}$						
OSW50805C1E	White	W5	-	3.3	3.6	10	350	450	-	X:0.29, Y:0.29		120	
OSW40805C1E	White	W4	-	3.3	3.6	10	350	450	-	X:0.31, Y:0.33		120	
OSM50805C1E	Warm White	M5	-	3.3	3.6	10	350	450	-	X:0.44, Y:0.41		120	
OSK50805C1E	Pink	K5	-	3.3	3.6	10	60	90	-	X:0.38, Y:0.18		120	
OSB50805C1E	Blue	B5	-	3.2	3.6	10	42	80	-	460	465	475	120
OSG50805C1E	True Green	G5	-	3.3	3.6	10	400	450	-	520	525	530	120
OSG80805C1E	Yellow Green	G8	-	2.0	2.6	10	20	35	-	564	570	578	120
OSY50805C1E	Yellow	Y5	-	2.1	2.6	10	100	120	-	585	590	595	120
OSO50805C1E	Orange	O5	-	2.0	2.6	10	100	120	-	600	605	610	120
OSR50805C1E	Red	R5	-	2.0	2.6	10	120	150	-	620	625	630	120

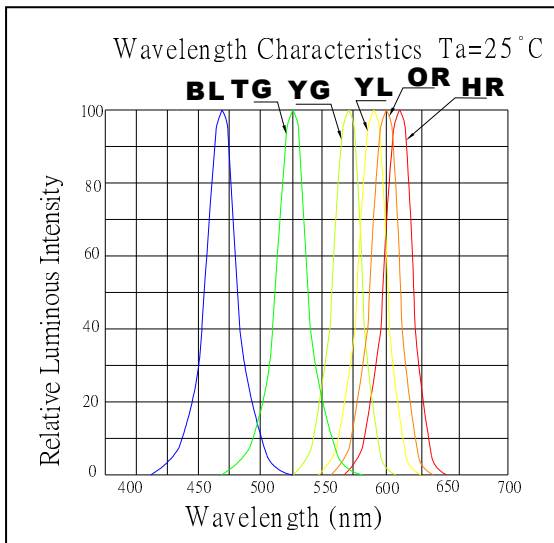
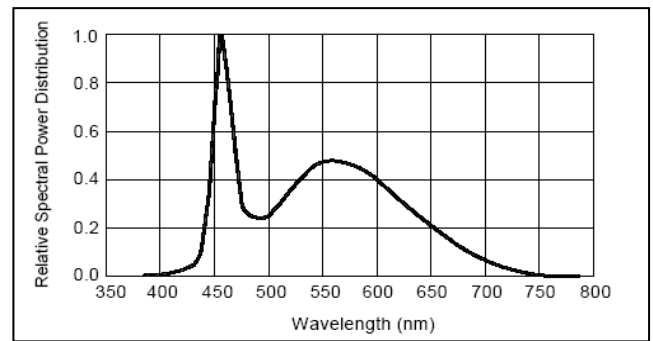
Note: \*  $V_f$  tolerance:  $\pm 0.05\text{V}$  \* Dominant wavelength tolerance:  $\pm 1\text{nm}$  \* Luminous intensity tolerance:  $\pm 10\%$

■ Optical and electrical characteristics

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES



**WT**



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