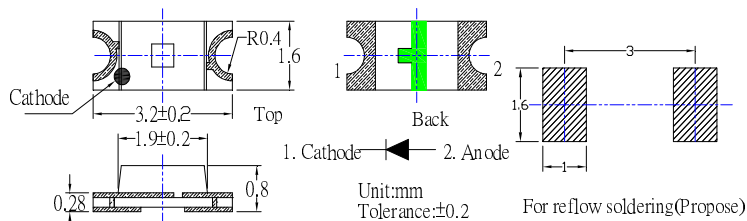


## ■Features

- 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.

## ■Outline Dimension



## ■Applications

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

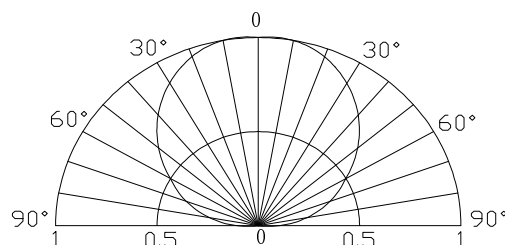
## ■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value		Unit
		WT/MT/BL/TG	YG/YL/OR/HR	
DC Forward Current	I <sub>F</sub>	30	30	mA
Pulse Forward Current*	I <sub>FP</sub>	100	100	mA
Reverse Voltage	V <sub>R</sub>	5	5	V
Power Dissipation	P <sub>D</sub>	108	78	mW
Operating Temperature	T <sub>opr</sub>	-40 ~ +85		°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85		°C
Lead Soldering Temperature	T <sub>sol</sub>	260°C/5sec		-

\*Pulse width Max 0.1ms, Duty ratio max 1/10

## ■Directivity



## ■Electrical -Optical Characteristics

(Ta=25°C)

Part Number	Color			V <sub>F</sub> (V)			I <sub>R</sub> (μA)	I <sub>v</sub> (mcd)			λ <sub>D</sub> (nm)			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I <sub>F</sub> =20mA			V <sub>R</sub> =5V	I <sub>F</sub> =20mA			I <sub>F</sub> =20mA			
OSW51206C1E	White	W5		3.0	-	3.6	100	400	450	-	X=0.29 Y=0.29			120
OSM51206C1E	Warm White	M5		3.0	-	3.6	100	400	450	-	X:0.44, Y:0.41			120
OSK51206C1E	Pink	K5		3.0	-	3.6	100	60	90	-	X:0.38, Y:0.18			120
OSB51206C1E	Blue	B5		3.0	-	3.6	100	80	100	-	460	465	475	120
OSG51206C1E	True Green	G5		2.9	-	3.6	100	300	350	-	520	525	530	120
OSG81206C1E	Yellow Green	G8		1.8	-	2.6	100	20	45	-	565	570	575	120
OSY51206C1E	Yellow	Y5		1.8	-	2.6	100	60	90	-	585	590	595	120
OSO51206C1E	Orange	O5		1.8	-	2.6	100	100	120	-	600	605	610	120
OSR51206C1E	Red	R5		1.8	-	2.6	100	100	120	-	620	625	630	120

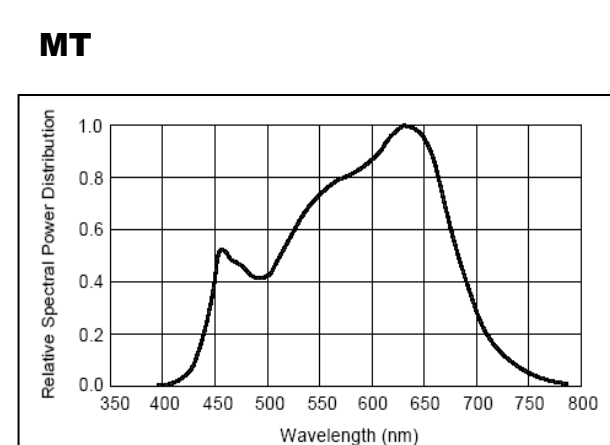
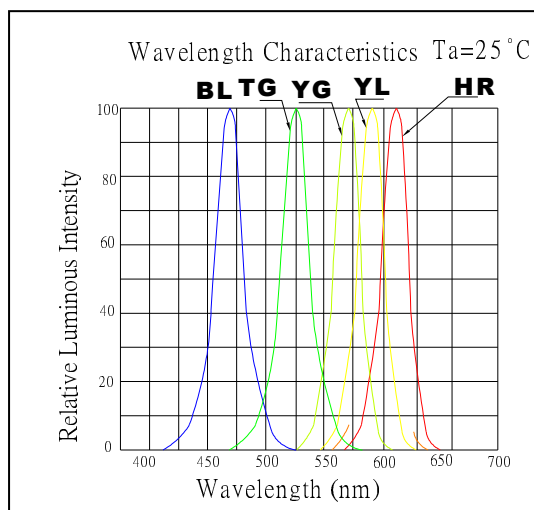
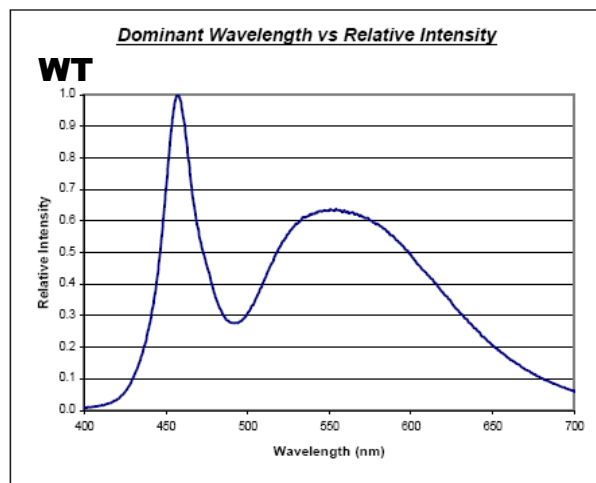
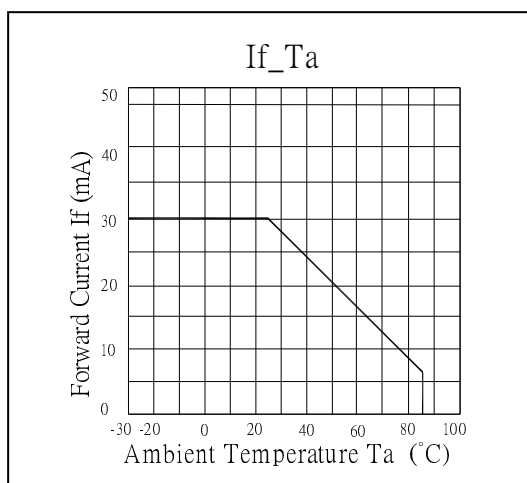
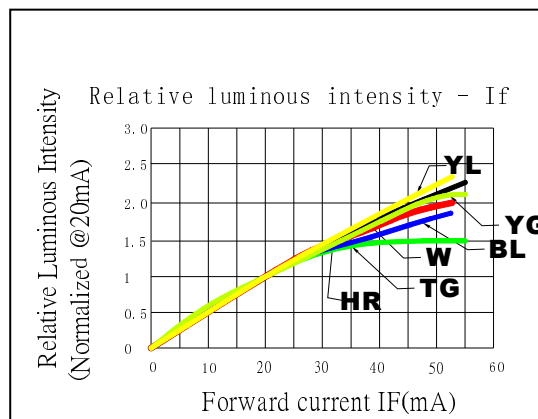
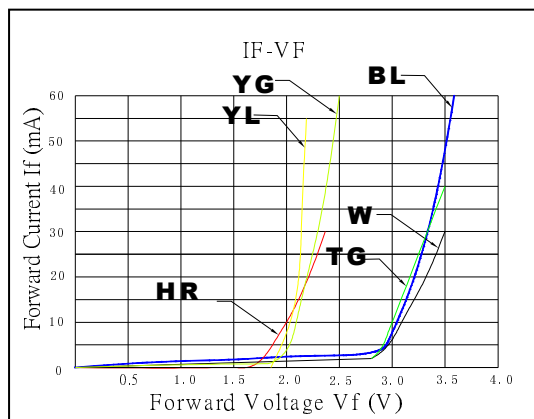
Note: \* V<sub>f</sub> tolerance: ±0.05V

\* Dominant wavelength tolerance: ±1nm

\* Luminous intensity is NIST reading. Luminous intensity tolerance: ±10%

## ■ Optical and electrical characteristics

### TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES





# OptoSupply

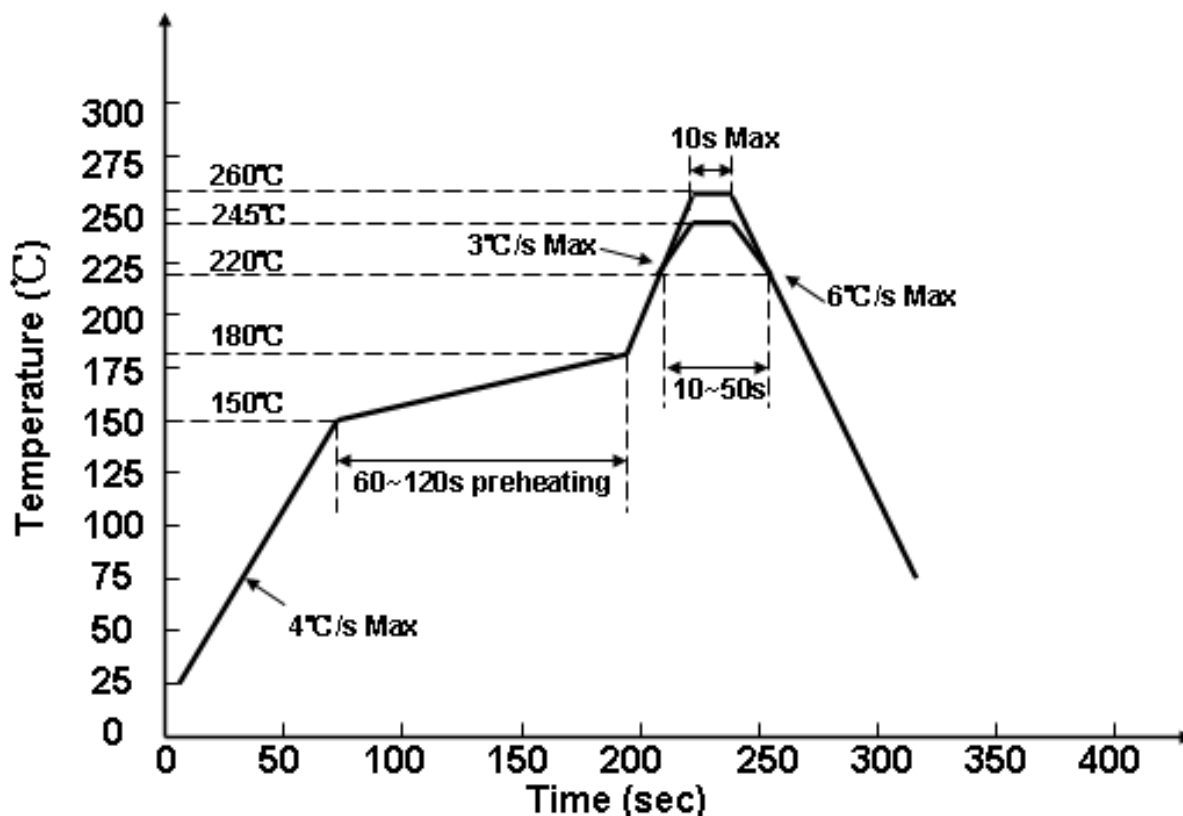
Light It Up

3.2x1.6 x0.8mm SMD

OSXX1206C1E

Ver.A.4

## ■ For Lead Free Solder

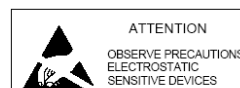


### Notes:

We recommend the soldering temperature  $245 \pm 5^{\circ}\text{C}$  ;

The maximum temperature should be limited to  $260^{\circ}\text{C}$ .

LED & Application Technologies





# OptoSupply

Light It Up

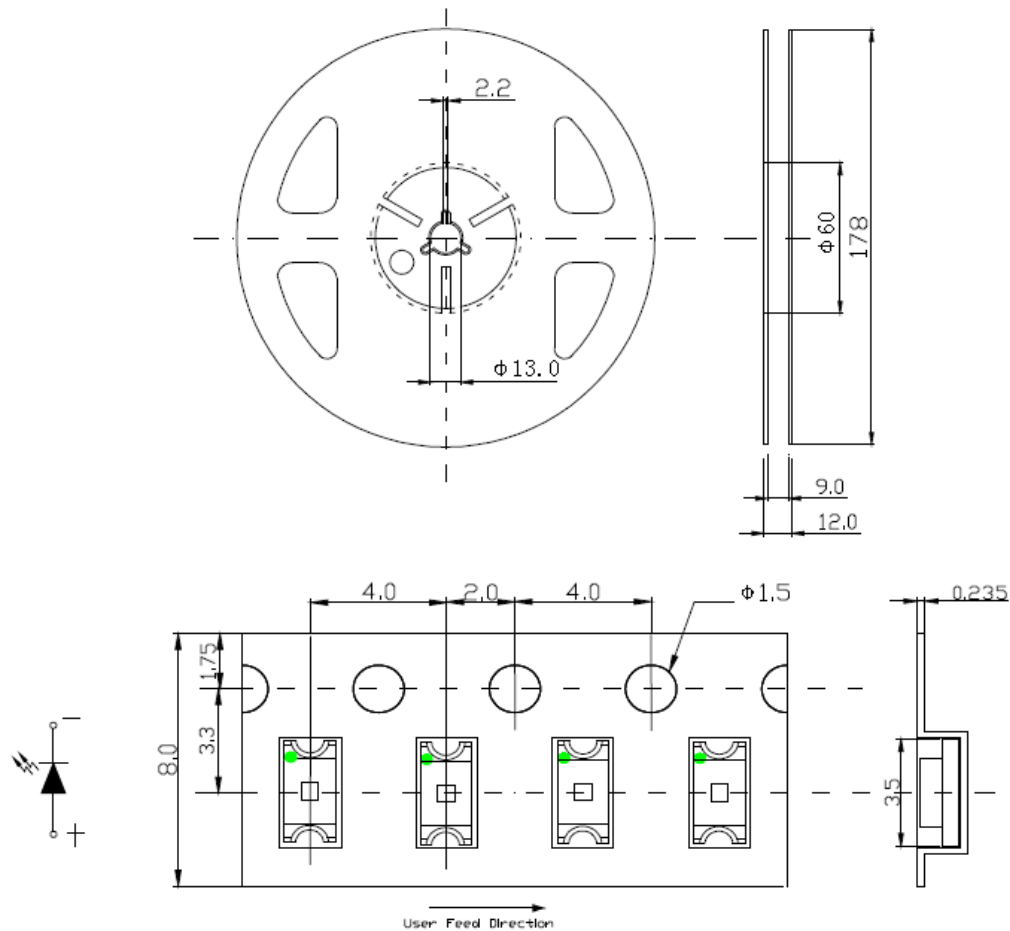
3.2x1.6 x0.8mm SMD

OSXX1206C1E

Ver.A.4

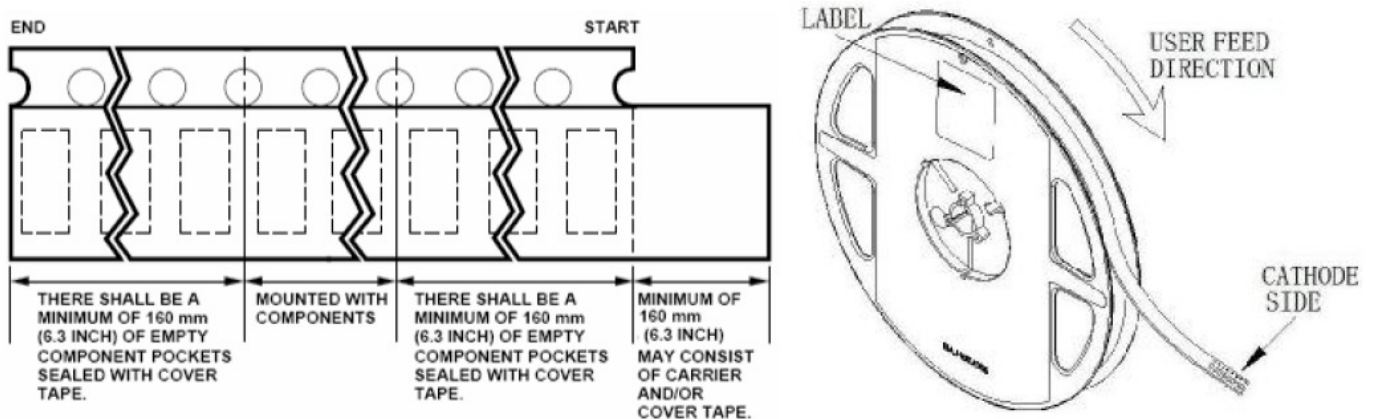
## ■Packaging

### 1. Reel And Tape Dimensions

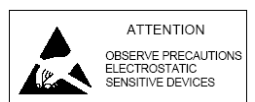


Notes: All dimensions are in millimeters

### 2. Tape leader & Trailer Dimensins And Reel



LED & Application Technologies



### 3. Bag packaging

