

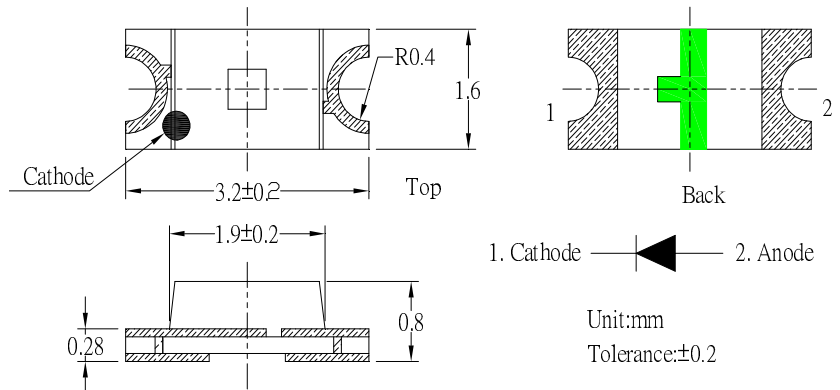
■Features

- 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.

■Applications

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

■Outline Dimension



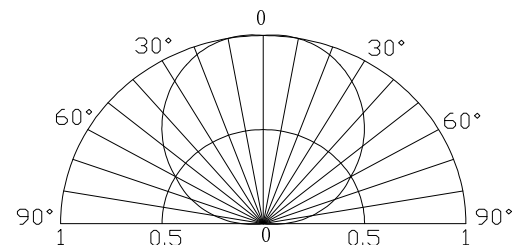
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value		Unit
		WT/MT/BL/TG	YG/YL/OR/HR	
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		°C
Storage Temperature	T _{stg}	-40 ~ +85		°C
Lead Soldering Temperature	T _{sol}	260°C/5sec		-

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

■Directivity



■Electrical -Optical Characteristics

(Ta=25°C)

Part Number	Color			V _F (V)			I _R (μA)	I _v (mcd)			λ _D (nm)			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I _F =20mA			V _R =5V	I _F =20mA			I _F =20mA			
OSW51206C1E	White	W5		3.0	-	3.6	10	400	450	-	X=0.29 Y=0.29			120
OSM51206C1E	Warm White	M5		3.0	-	3.6	10	400	450	-	X:0.44, Y:0.41			120
OSK51206C1E	Pink	K5		3.0	-	3.6	10	60	90	-	X:0.38, Y:0.18			120
OSB51206C1E	Blue	B5		3.0	-	3.6	10	80	100	-	460	465	475	120
OSG51206C1E	True Green	G5		2.9	-	3.6	10	300	350	-	520	525	530	120
OSG81206C1E	Yellow Green	G8		1.8	-	2.6	10	20	45	-	565	570	575	120
OSY51206C1E	Yellow	Y5		1.8	-	2.6	10	60	90	-	585	590	595	120
OSO51206C1E	Orange	O5		1.8	-	2.6	10	100	120	-	600	605	610	120
OSR51206C1E	Red	R5		1.8	-	2.6	10	100	120	-	620	625	630	120

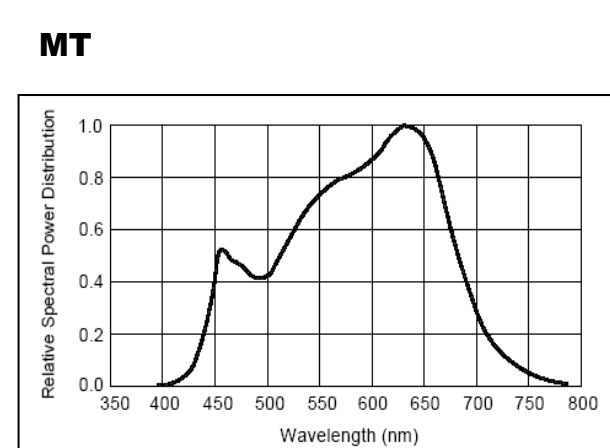
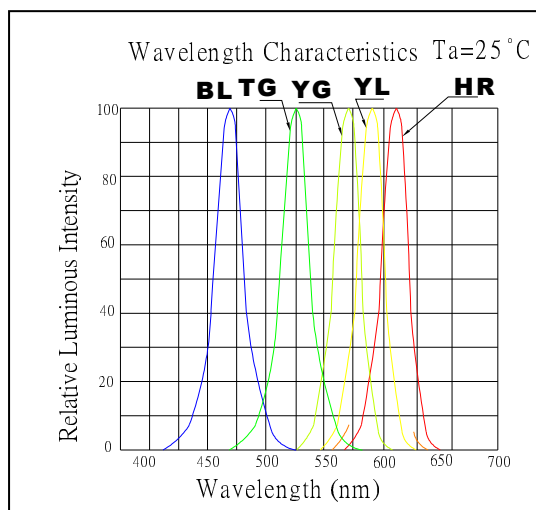
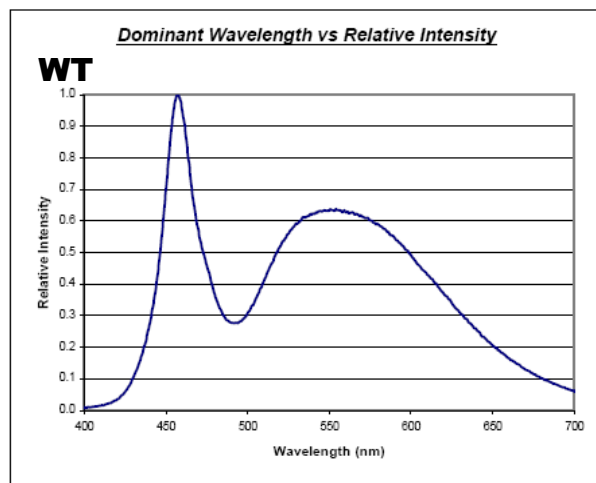
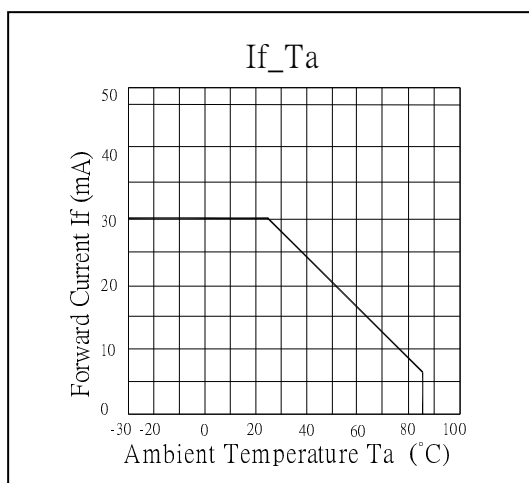
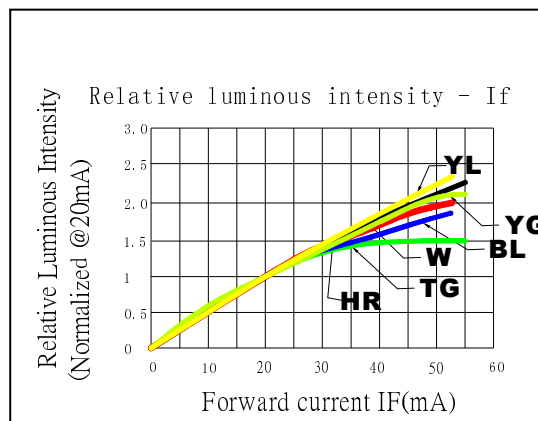
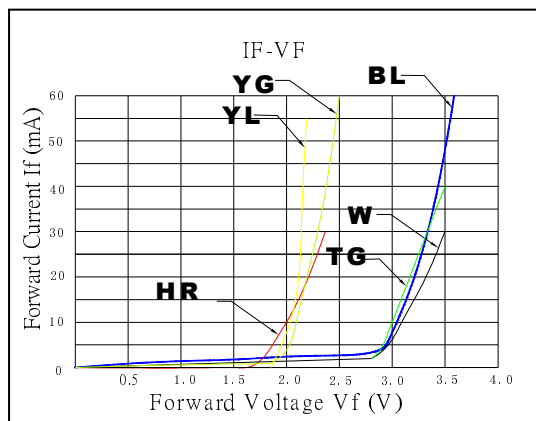
Note: * V_f tolerance: ±0.05V

* Dominant wavelength tolerance: ±1nm

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

■ **Optical and electrical characteristics**

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES





OptoSupply

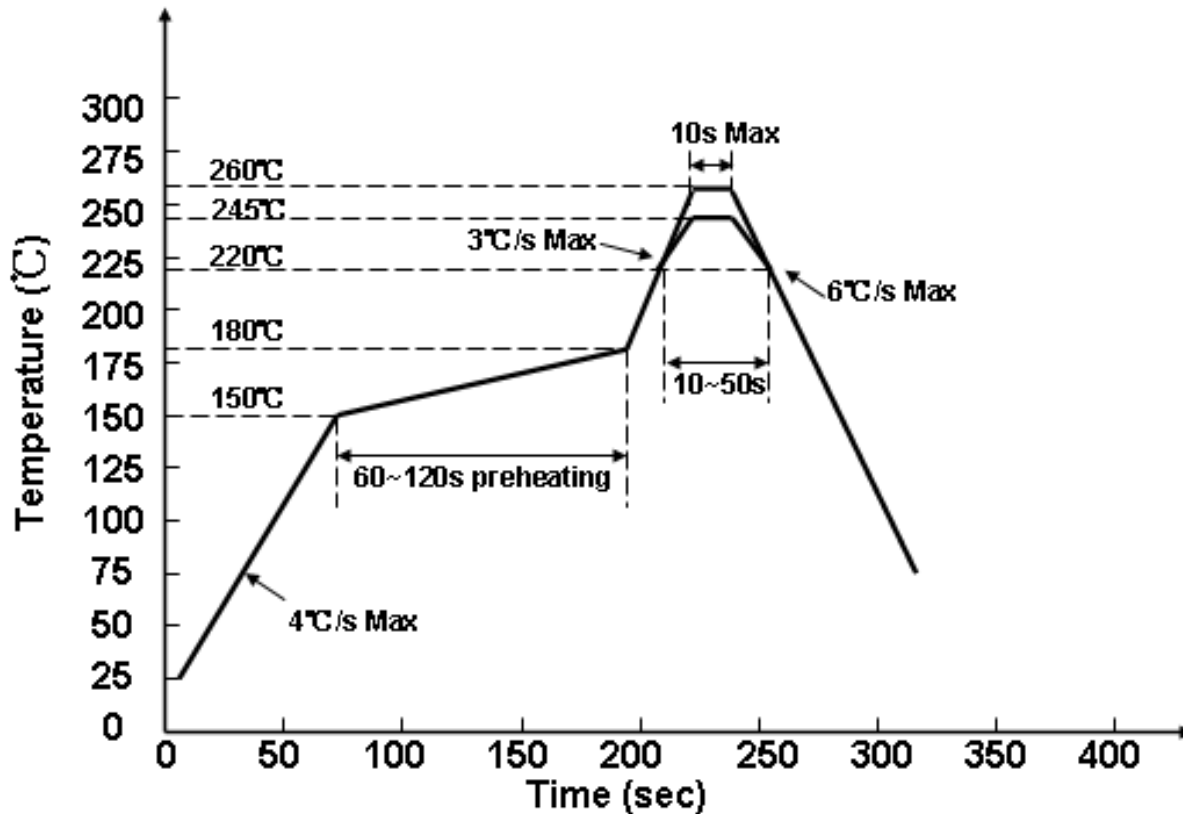
Light It Up

3.2x1.6 x0.8mm Chip LED

OSXX1206C1E

Ver.A.3

■ For Lead Free Solder



Notes:

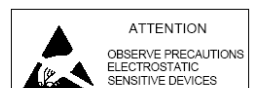
We recommend the soldering temperature $245 \pm 5^{\circ}\text{C}$;

The maximum temperature should be limited to 260°C .

LED & Application Technologies



REACH
The new EU chemicals legislation





OptoSupply

Light It Up

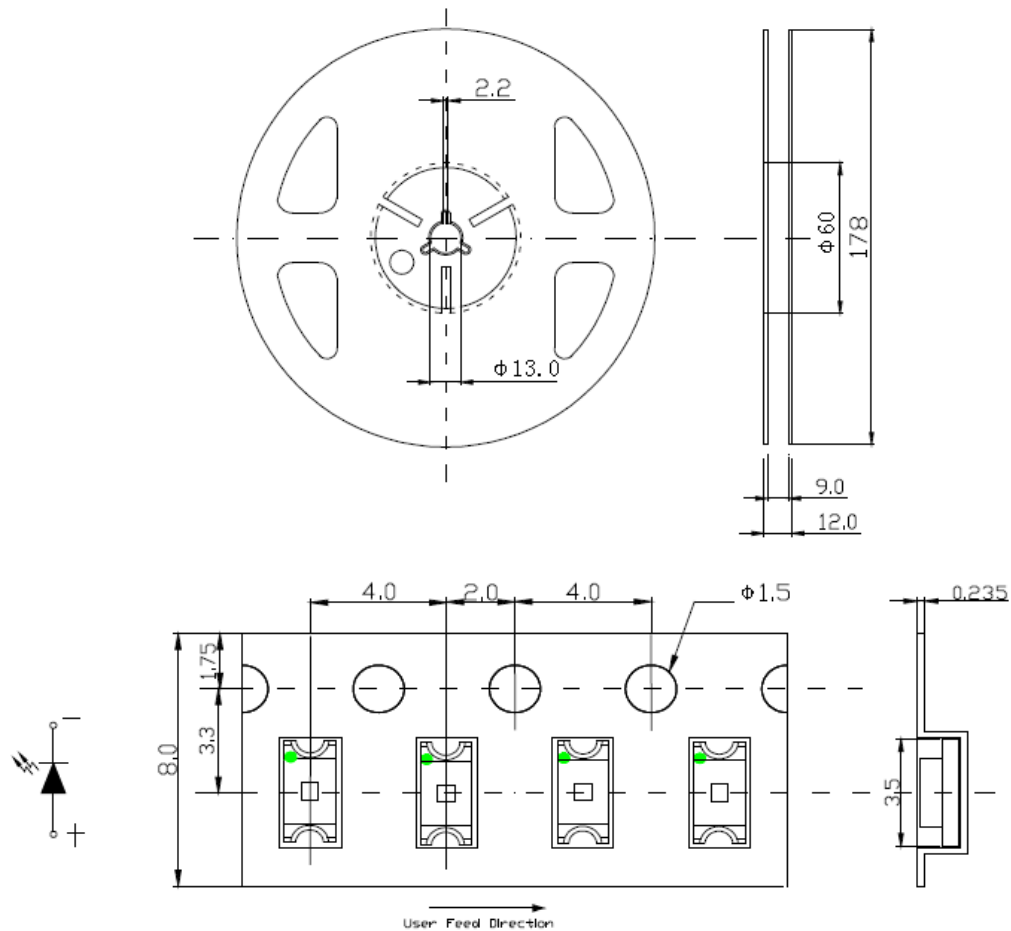
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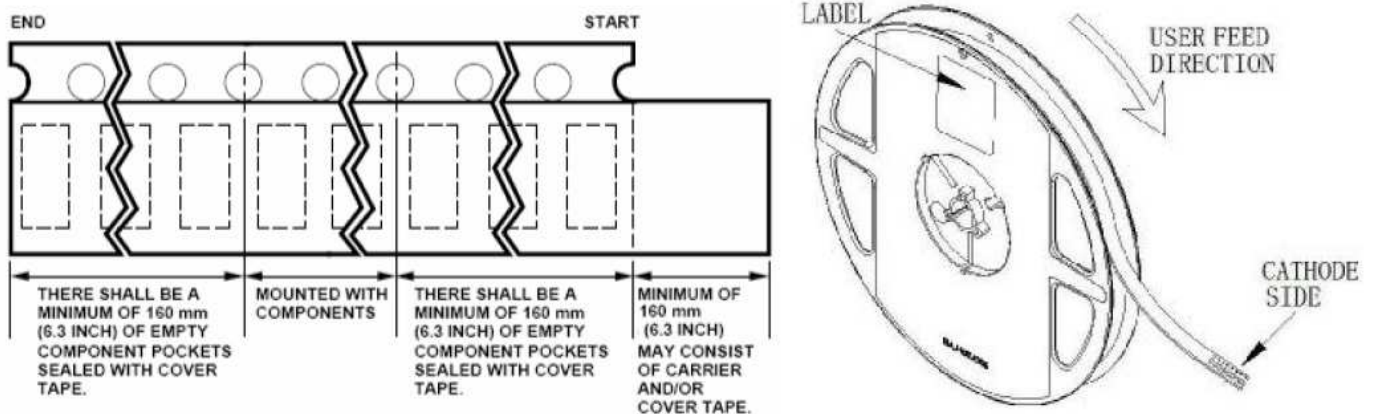
■Packaging

1. Reel And Tape Dimensions

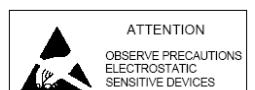


Notes: All dimensions are in millimeters

2. Tape leader & Trailer Dimensins And Reel



LED & Application Technologies



3. Bag packaging

