

## SMD LED LAMP, Bi-Color Type

**BL-LS2012C0E2**

### Features:

- 2.0mmx1.25mm SMD, 0.8mm THICKNESS
- Bi-color type
- Compatible with automatic placement equipment
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 4KPCS/REEL
- RoHs Compliance



### ■ Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)

Part Number	Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (lv) Unit:mcd		Viewing Angle 2θ1/2 (deg)
	Emitted Color	Material	λ <sub>p</sub> (nm)		Typ	Max	Min.	Typ.	
					BL-LS2012C0E2EGC	Red	GaAsP	635	
	Green	GaP	568	2.30	2.70	6	15		
BL-LS2012C0E2UYUGC	Ultra Yellow	AllnGaP	593	2.10	2.60	30	65		
	Ultra Green	AllnGaP	575	2.20	2.70	40	80		
BL-LS2012C0E2UEUGC	Ultra Red	AllnGaP	630	2.10	2.60	30	70		
	Ultra Green	AllnGaP	575	2.20	2.70	40	80		

### ■ Absolute maximum ratings (Ta=25°C)

Parameter	Rating	Unit
Forward Current I <sub>F</sub>	30	mA
Power Dissipation P <sub>d</sub>	78	mW
Reverse Voltage V <sub>R</sub>	5	V
Peak Forward Current I <sub>PF</sub> (Duty 1/10 @1KHZ)	100	mA
Operation Temperature T <sub>OPR</sub>	-30 to +80	°C
Storage Temperature T <sub>STG</sub>	-40 to +85	°C
Lead Soldering Temperature T <sub>SOL</sub>	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)	°C

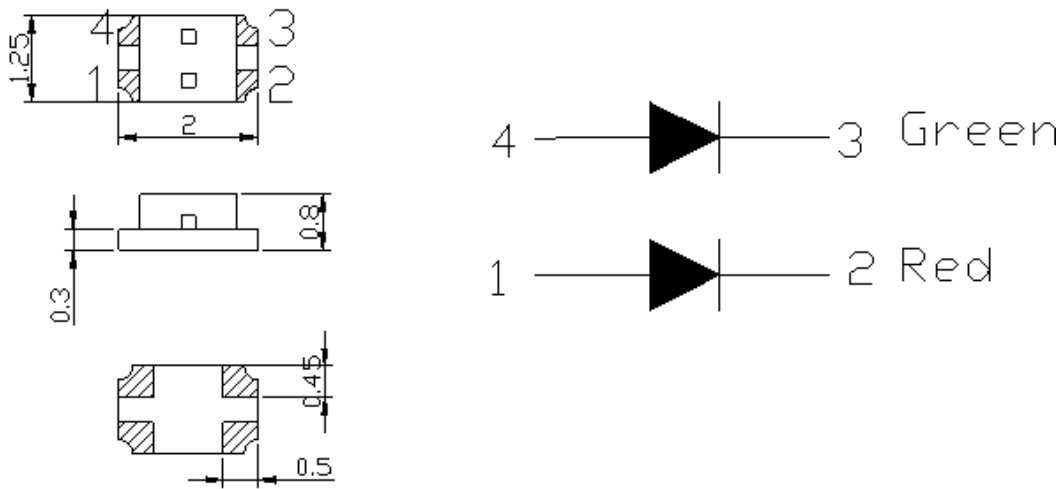
**SMD LED LAMP, Bi-Color Type**

**BL-LS2012C0E2**

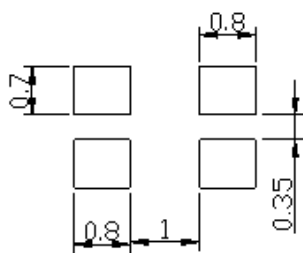
■ **Package configuration & Internal circuit diagram**

BL-LS2012C0E2XX Series

**Package Outline Drawing**



**Recommended Soldering Pad Dimensions**



**Notes:**

1. All dimensions are in millimeters (inches)
2. Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
3. Specifications are subject to change without notice.

**SMD LED LAMP, Bi-Color Type**

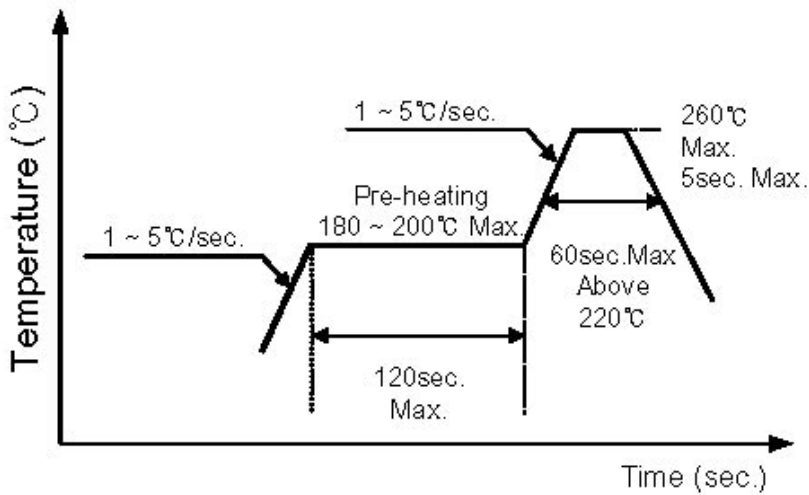
**BL-LS2012C0E2**

■ **Tape Specifications**

**Smt Reflow Soldering Instructions**

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process

■ **Lead-free Solder**



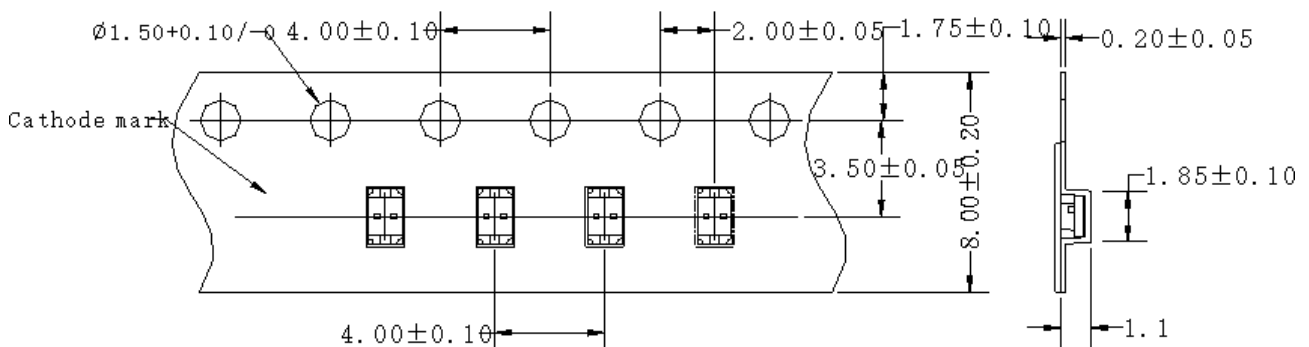
■ **Tape Specifications**

(Units:mm)

**Tape Specifications**

Unit: mm

Tolerance:  $\pm 0.1$

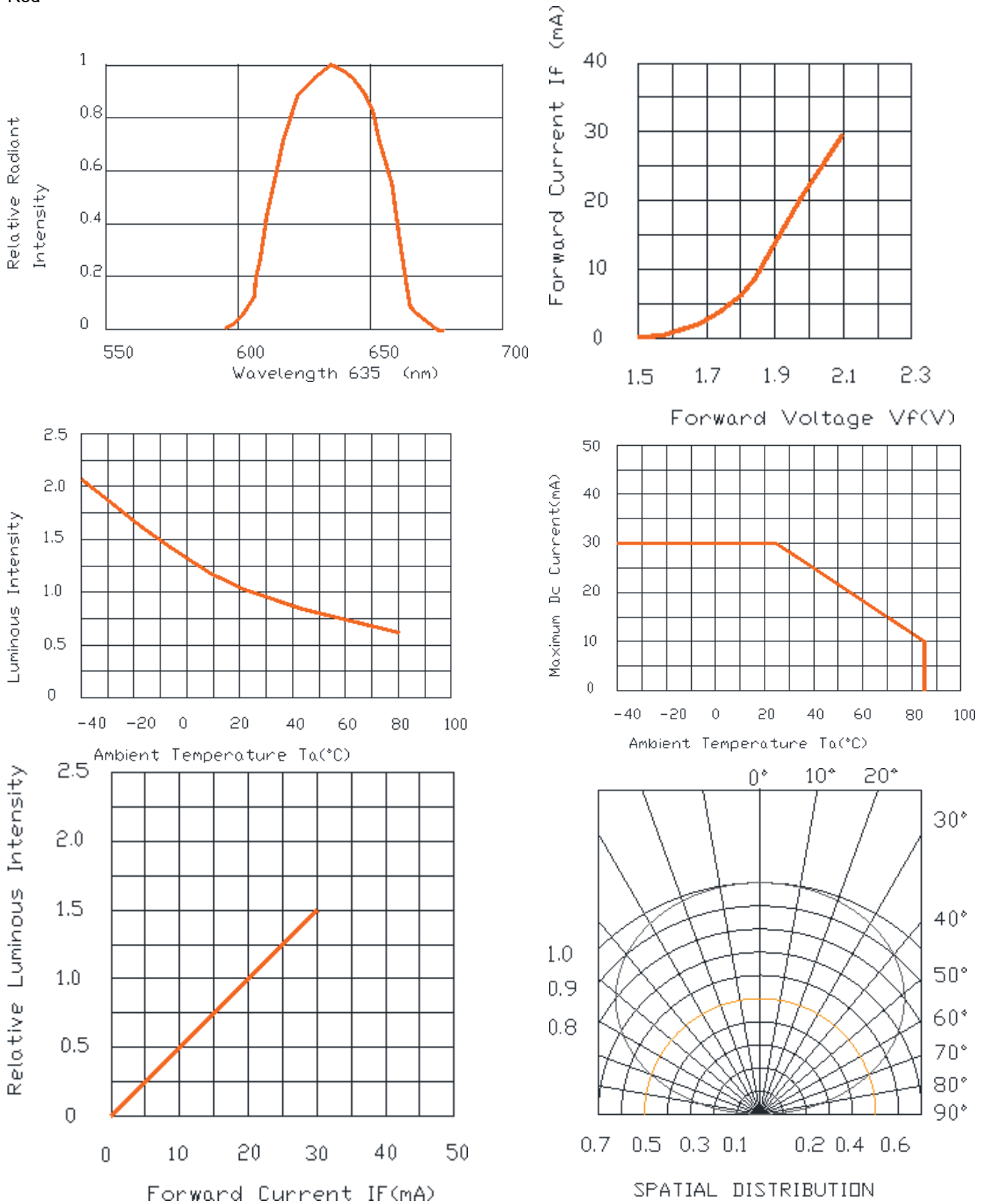


**SMD LED LAMP, Bi-Color Type**

**BL-LS2012C0E2**

■ **Typical electrical-optical characteristics curves:**

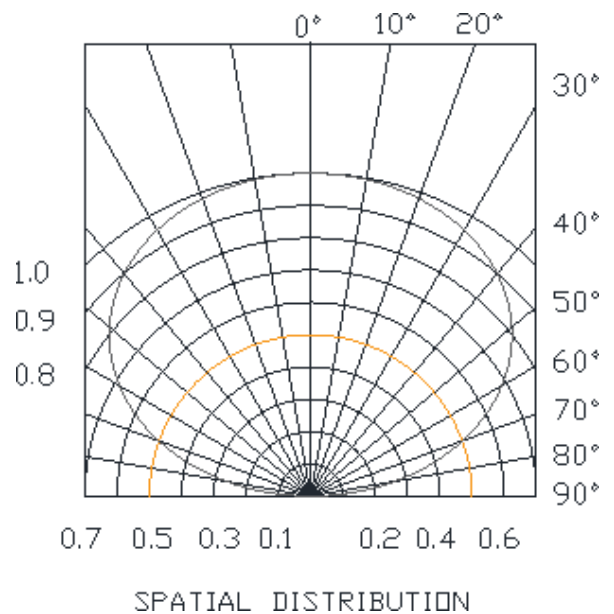
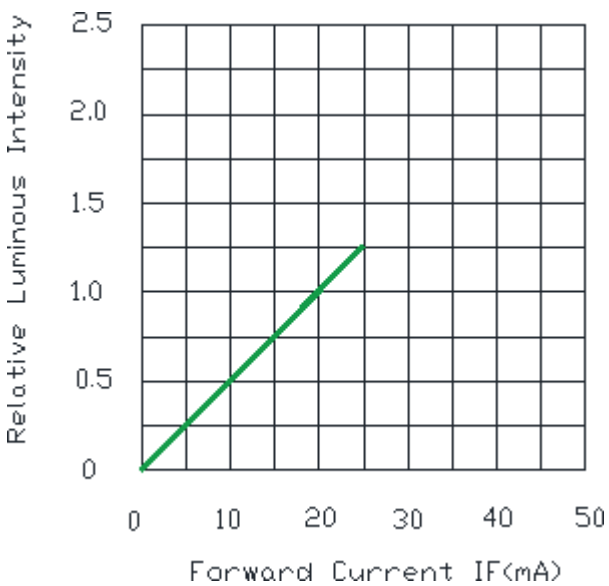
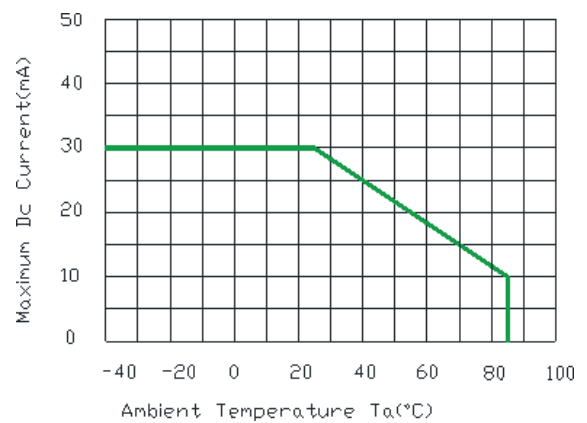
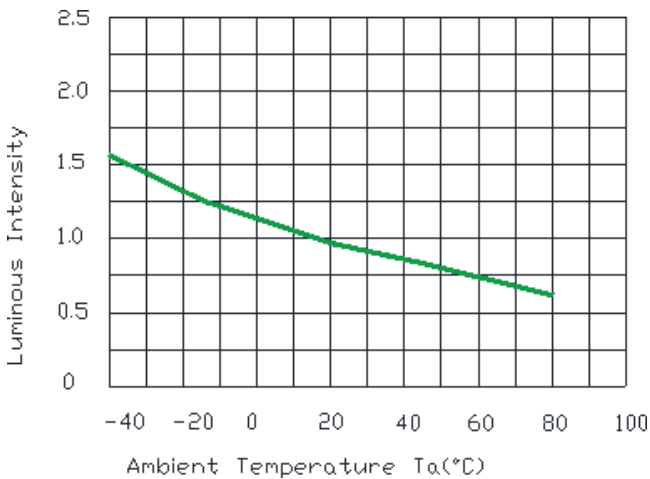
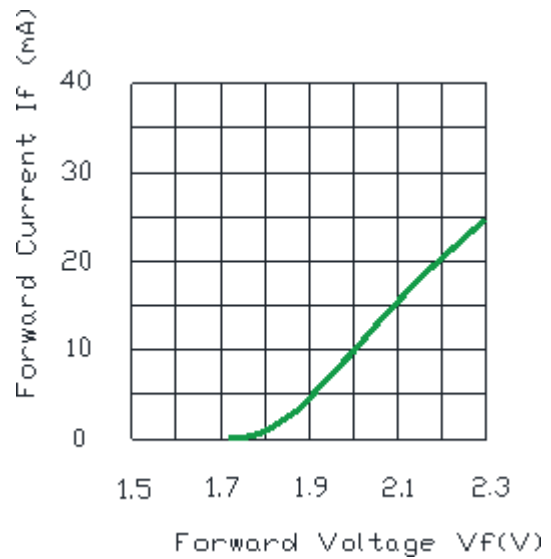
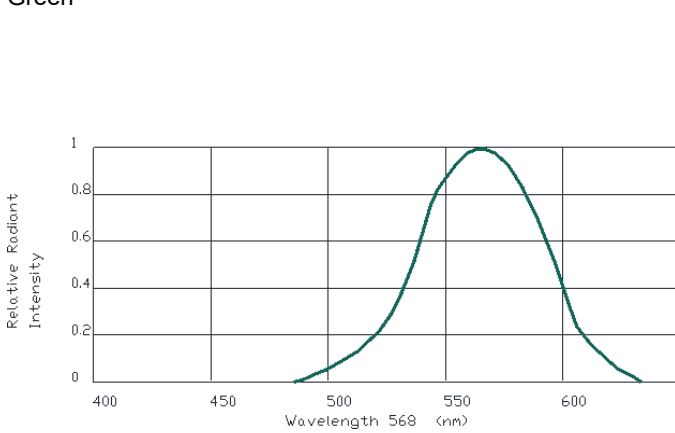
Red



**SMD LED LAMP, Bi-Color Type**

**BL-LS2012C0E2**

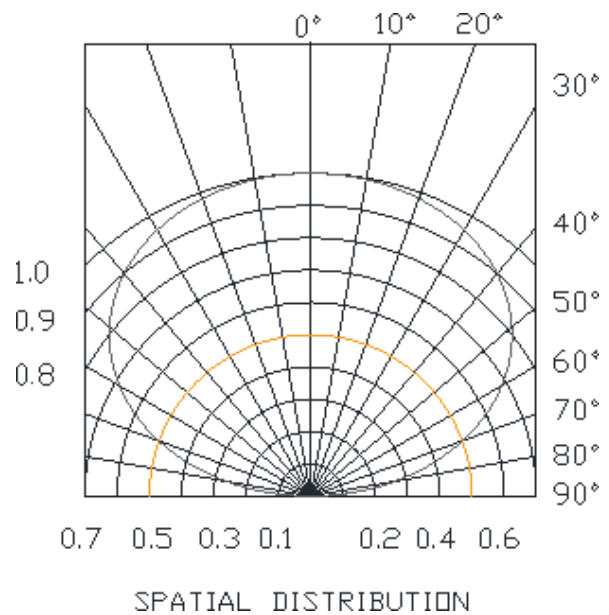
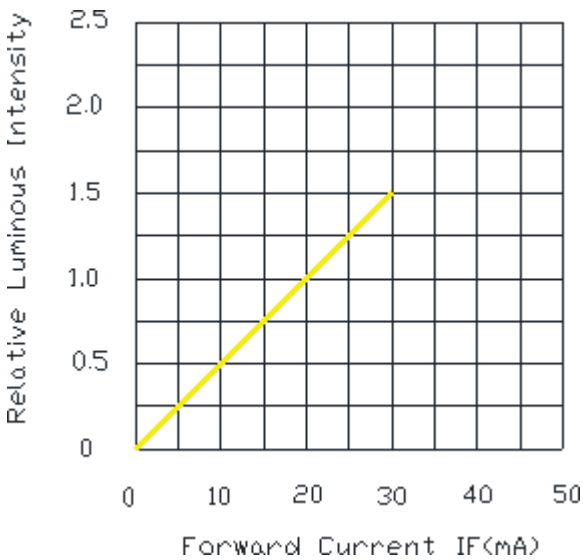
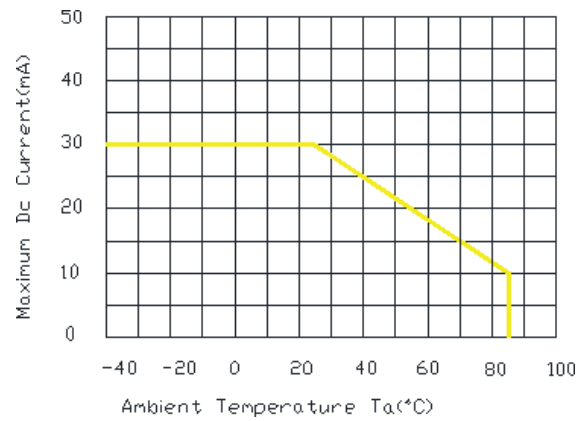
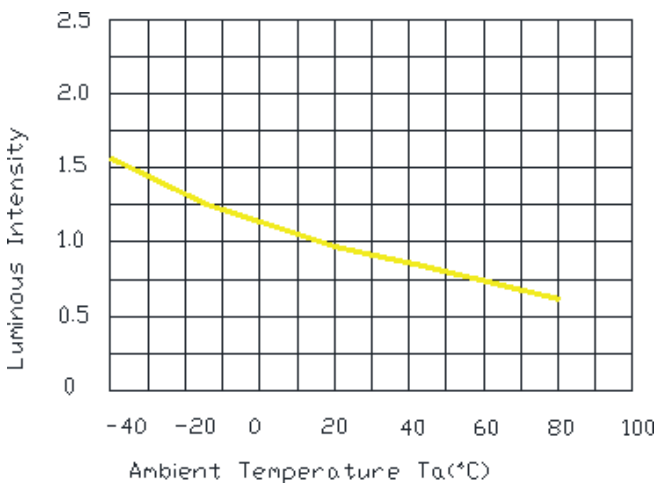
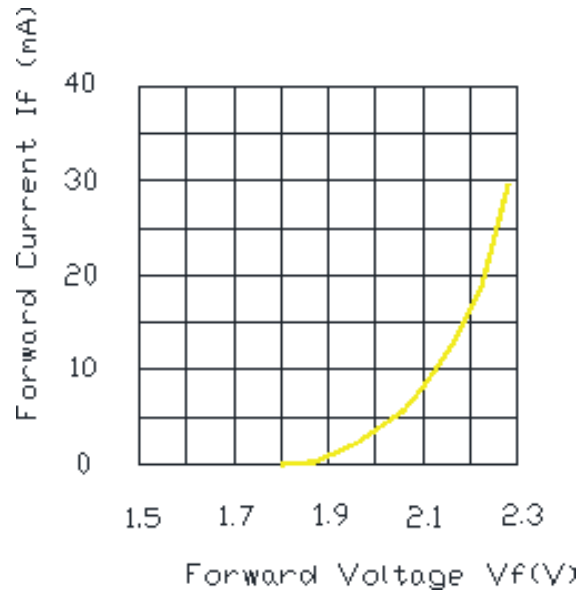
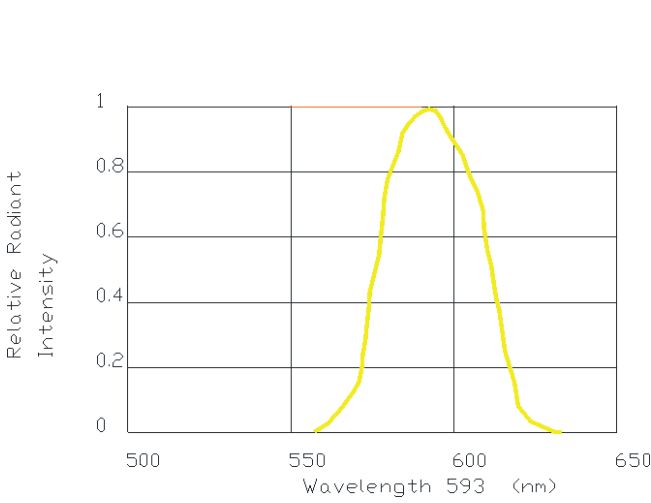
Green



**SMD LED LAMP, Bi-Color Type**

**BL-LS2012C0E2**

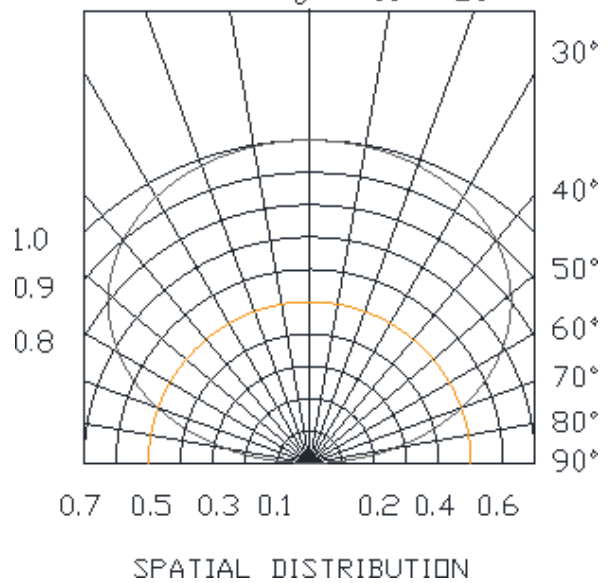
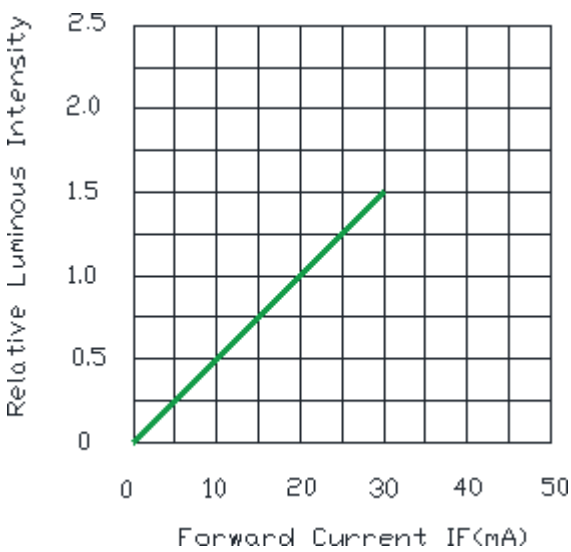
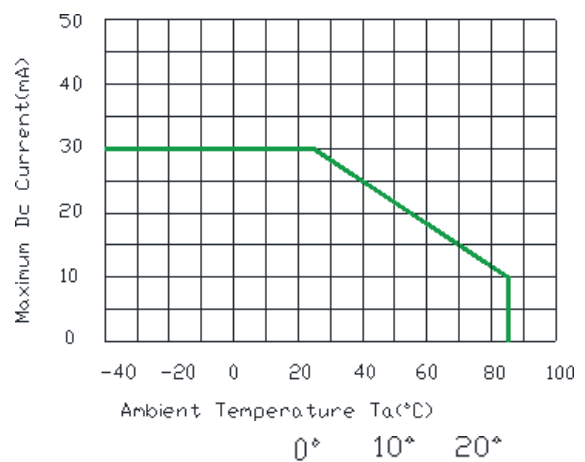
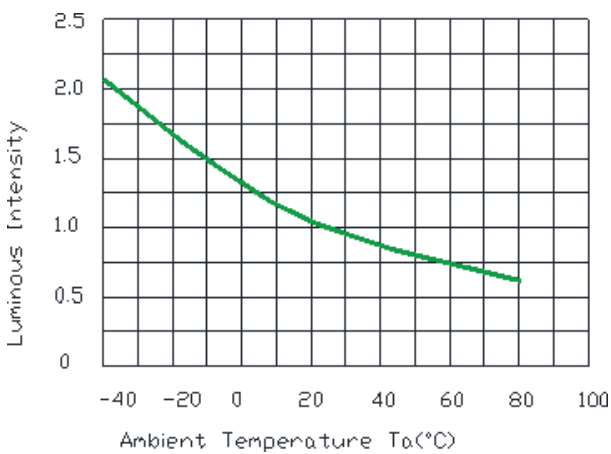
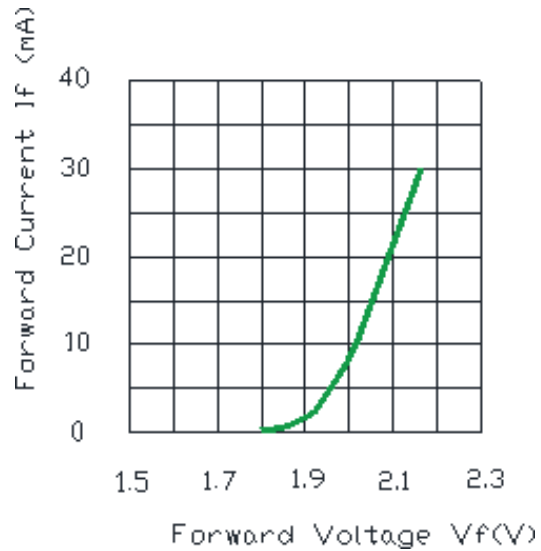
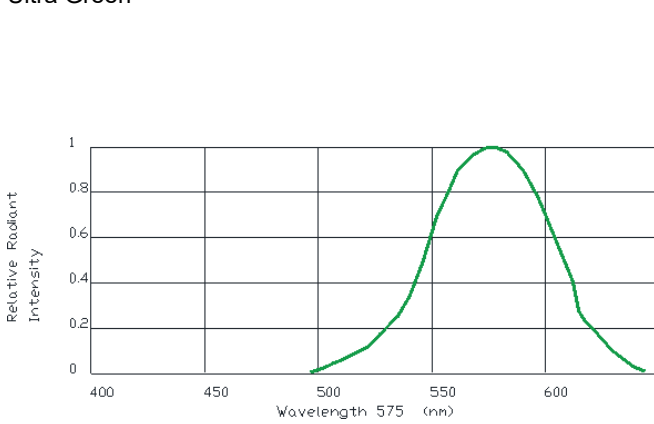
**Ultra Yellow**



**SMD LED LAMP, Bi-Color Type**

**BL-LS2012C0E2**

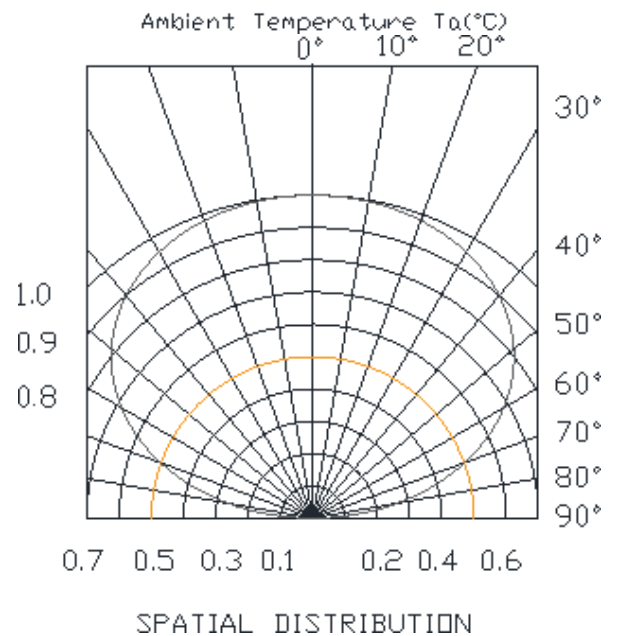
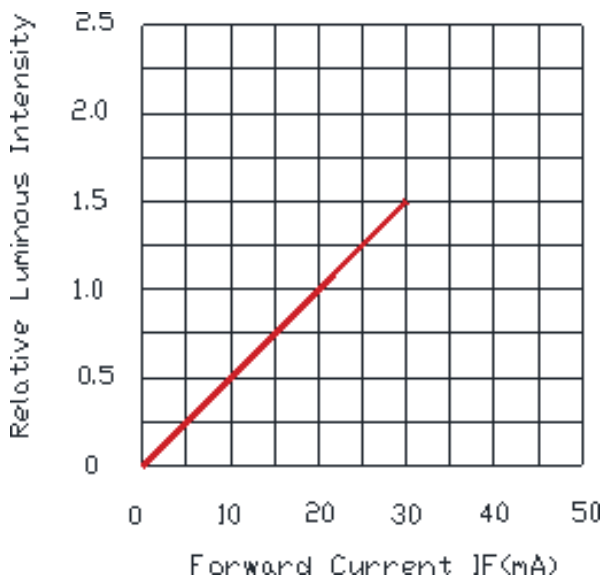
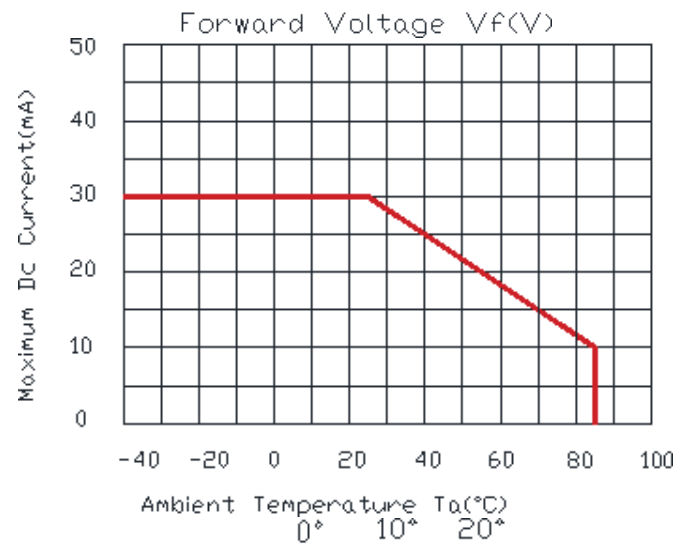
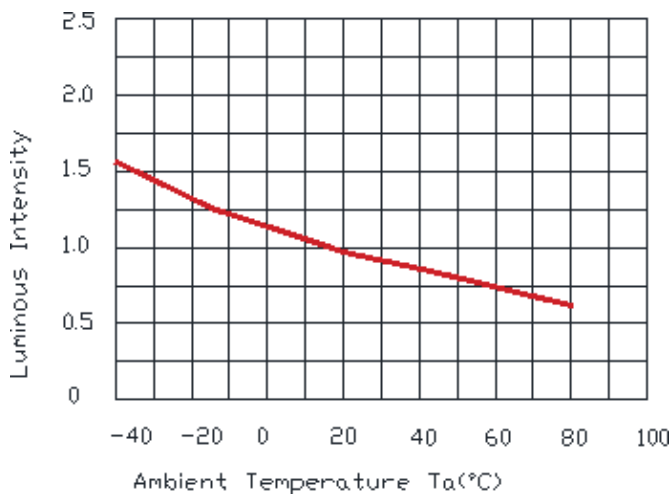
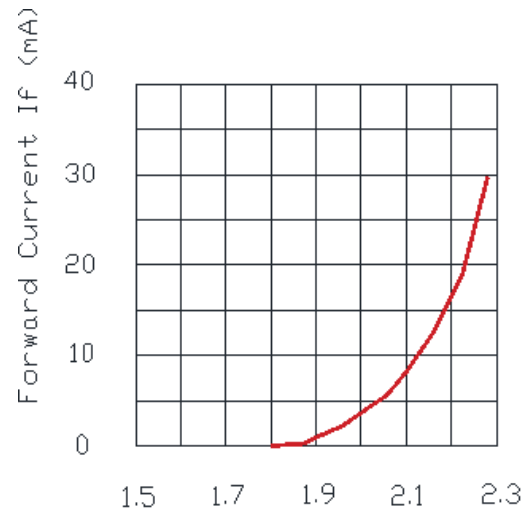
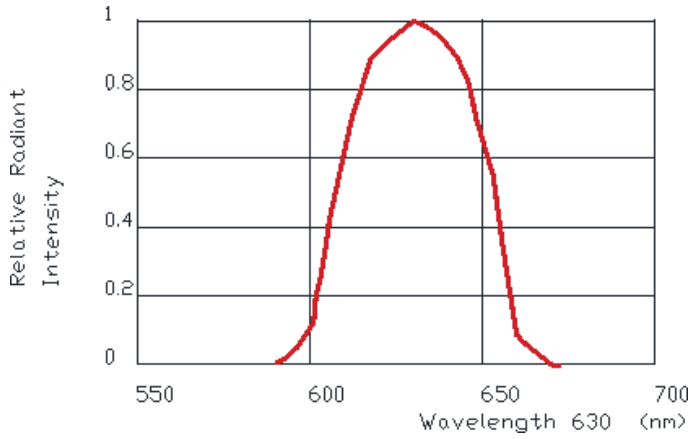
**Ultra Green**



**SMD LED LAMP, Bi-Color Type**

**BL-LS2012C0E2**

**Ultra Red**





**SMD LED LAMP, Bi-Color Type**

**BL-LS2012C0E2**

■ **Packing and weighting**

