

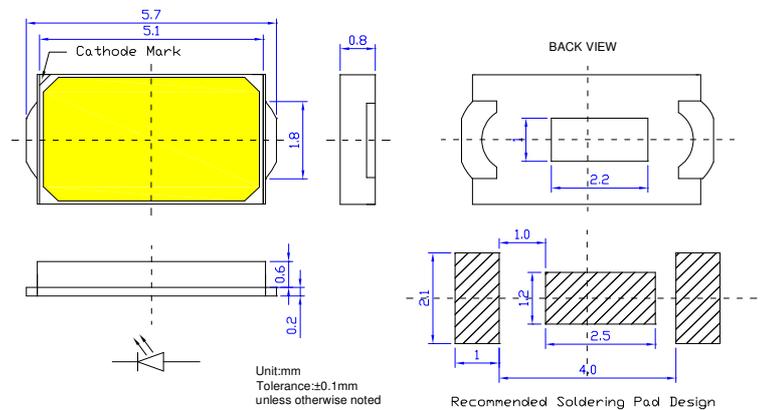
**■Features**

- Top view white LED (5.7x3.0x0.8mm)
- Super high brightness of surface mount LED
- Lead frame package with individual 2 pins
- ESD protection
- Compatible to IR reflow soldering.

**■Applications**

- Commercial lighting
- Decoration lighting
- Residential lighting

**■Outline Dimension**



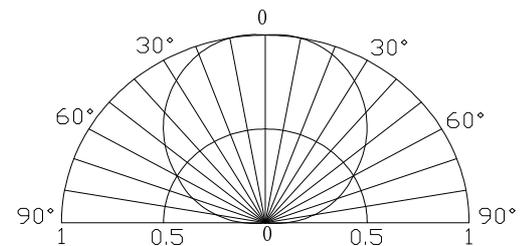
**■Absolute Maximum Rating**

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I <sub>F</sub>	150	mA
Pulse Forward Current*	I <sub>FP</sub>	200	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	540	mW
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40~ +85	°C
Lead Soldering Temperature	Tsol	260°C/10sec	-

\*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)	Φ <sub>v</sub> (lm)			CCT			2θ1/2(deg)
			Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
			I <sub>F</sub> =150mA			V <sub>R</sub> =5V	I <sub>F</sub> =150mA						
OSW35730C1A-150mA	White	W	2.8	3.2	3.6	10	60	-	65	5000K	-	5500K	120
OSW45730C1A-150mA	White	W	2.8	3.2	3.6	10	60	-	65	6000K	-	6500K	120
OSM55730C1A-150mA	Warm White	M	2.8	3.2	3.6	10	55	-	60	2900K	-	3100K	120
OSM65730C1A-150mA	Nature White	W	2.8	3.2	3.6	10	60	-	65	3800K	-	4300K	120

\*1 Tolerance of measurements of chromaticity coordinates is ±10%

\*2 Tolerance of measurements of luminous flux is ±15%

\*3 Tolerance of measurements of forward voltage is ±0.1V

## Precautions in Use for Surface Mount Diode

### ■ Storage

#### · Storage Conditions

Before opening the package:

The LEDs should be kept at 30°C or less and 60%RH or less. The LEDs should be used within a year. When storing the LEDs, moisture proof packaging with absorbent material (silica gel) is recommended.

#### · After opening the package:

Soldering should be done right after opening the package (within 24hrs).

Keeping of a fraction, sealing and Temperature: 5~30°C Humidity: Less than 30%.

If the package has been opened more than 24 Hours, components should be dried for 12hrs, at  $60 \pm 5^\circ\text{C}$ .

· Optosupply LED electrode sections are comprised of a silver plated copper alloy. The silver surface may be affected by environments which contain corrosive gases and so on. Please avoid conditions which may cause the LED to corrode, tarnish or discolor. This corrosion or discoloration may cause difficulty during soldering operations. It is recommended that the User use the LEDs as soon as possible.

· Please avoid rapid transitions in ambient temperature, especially in high humidity environments where condensation can occur.