

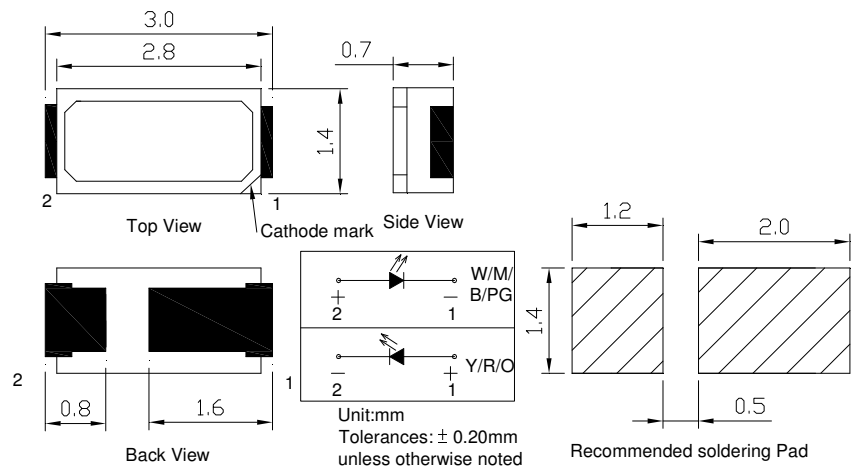
## ■Features

- Top view white LED (3.0 x 1.4 x 0.7mm)
- Super high brightness of surface mount LED
- Lead frame package with individual 2 pins
- Compatible to IR reflow soldering.

## ■Applications

- General lighting
- Decoration lighting
- Indicator

## ■Outline Dimension



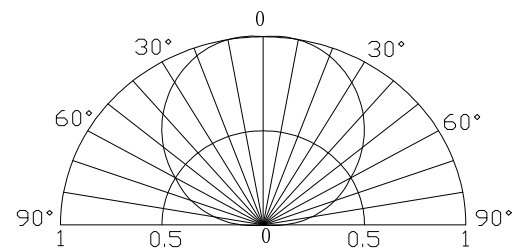
## ■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value		Unit
		W/M/B/PG	Y/R/O	
DC Forward Current	I <sub>F</sub>	35	35	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>	126	91	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)	I <sub>v</sub> (mcd)			WD(nm)/CCT(K)			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I <sub>F</sub> =30mA			V <sub>R</sub> =5V	I <sub>F</sub> =30mA			I <sub>F</sub> =30mA			
OSW53014C1A-30MA	Cool White	W		2.8	3.1	3.6	10	3000	3500	-	9000K	-	15000K	120
OSW43014C1A-30MA	White	W		2.8	3.1	3.6	10	3000	3500	-	5500K	-	6500K	120
OSM53014C1A-30MA	Warm White	M		2.8	3.1	3.6	10	3000	3500	-	2800K	-	3200K	120
OSB43014C1A-30MA	Blue	B		2.8	3.1	3.6	10	300	400	-	455	460	465	120
OSG53014C1A-30MA	Pure Green	PG		2.8	3.1	3.6	10	1600	2000	-	520	525	530	120
OSY53014C1A-30MA	Yellow	Y		1.8	2.1	2.6	10	800	1000	-	585	590	595	120
OSO53014C1A-30MA	Orange	O		1.8	2.1	2.6	10	800	1000	-	600	605	610	120
OSR53014C1A-30MA	Red	R		1.8	2.1	2.6	10	800	1000	-	620	625	630	120

\*1 Tolerance of measurements of chromaticity coordinate is ±10% \*2 Tolerance of measurements of dominant wavelength is ±1nm

\*3 Tolerance of measurements of luminous intensity is ±15% \*4 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) (MSL: 5a)

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.