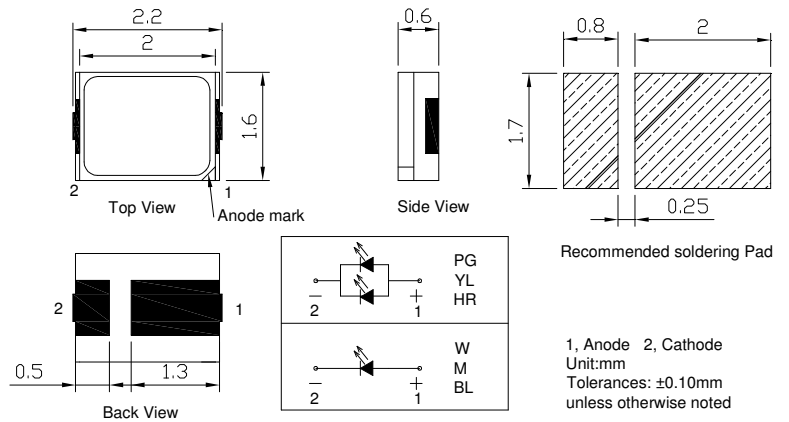


**■Features**

- Top view white LED (2.0 x 1.6 x 0.6mm)
- Super high brightness of surface mount LED
- Lead frame package with individual 2 pins
- Compatible to IR reflow soldering.

**■Outline Dimension**



**■Applications**

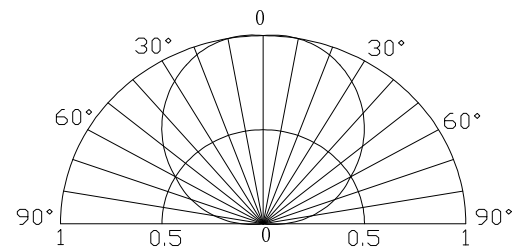
- General lighting
- Decoration lighting
- Indicator

**■Absolute Maximum Rating (Ta=25°C)**

Item	Symbol	Value		Unit
		W/M/B/G	Y/R	
DC Forward Current	I <sub>F</sub>	60	60	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>	228	156	mW
Operating Temperature	Topr	-30 ~ +85		°C
Storage Temperature	Tstg	-40~ +100		°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)			λD(nm)			2θ1/2(deg)
			Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
			I <sub>F</sub> =60mA			V <sub>R</sub> =5V	I <sub>F</sub> =60mA						
OSW52016C1A-60MA	Cool White	W5	2.9	3.2	3.8	10	7000	8400	-	8500-10000-15000K			120
OSW42016C1A-60MA	Pure White	W4	2.9	3.2	3.8	10	7000	8400	-	5000-7000K			120
OSM52016C1A-60MA	Warm White	M5	2.9	3.2	3.8	10	5800	7000	-	2700-3400K			120
OSB42016C1A-60MA	Blue	B5	2.9	3.2	3.8	10	500	750	-	455	460	465	120
OSG52016C1A-60MA	True Green	G5	2.9	3.2	3.8	20	3000	3500	-	520	525	530	120
OSY52016C1A-60MA	Yellow	Y5	1.8	2.1	2.6	20	1120	1560	-	585	590	595	120
OSR52016C1A-60MA	Red	R5	1.8	2.1	2.6	20	1120	1560	-	620	625	630	120

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

\*2 Tolerance of measurements of dominant wavelength is ±1nm

\*3 Tolerance of measurements of luminous flux 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).

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±5°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.