

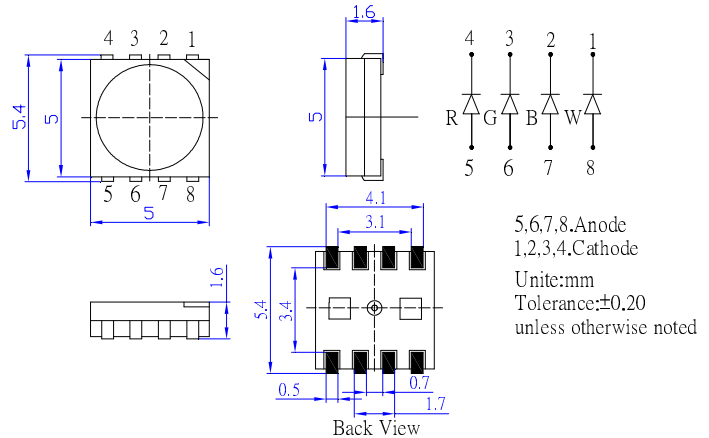
**■Features**

- High Luminous PLCC8 Top SMD LEDs
- 5.0x5.0x1.6mm Standard Directivity
- UV Resistant Epoxy
- Water Clear Type

**■Applications**

- Toys/Games/Audio
- Small Area Illuminations
- Back Lighting/Other Lighting

**■Outline Dimension**



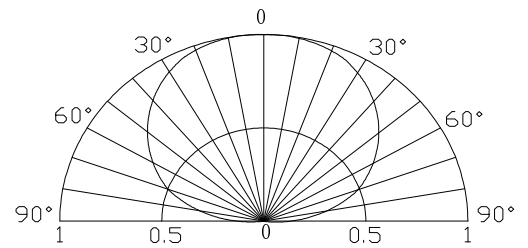
**■Absolute Maximum Rating**

(Ta=25°C)

Item	Symbol	Value		Unit
		Red	G/B/W	
DC Forward Current	I <sub>F</sub>	50	30	mA
Pulse Forward Current*	I <sub>FP</sub>	120	100	mA
Reverse Voltage	V <sub>R</sub>	5	5	V
Power Dissipation	P <sub>D</sub>	130	114	mW
Operating Temperature	T <sub>opr</sub>	-30 ~ +85		°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100		°C
Lead Soldering Temperature	T <sub>sol</sub>	260°C/10sec		-

\*Pulse width Max.10ms Duty ratio max 1/10

**■Directivity**



**■Electrical -Optical Characteristics**

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V <sub>F</sub> (R)	I <sub>F</sub> =20mA	1.8	2.1	2.6	V
	V <sub>F</sub> (B/G)	I <sub>F</sub> =20mA	2.8	3.1	3.6	V
	V <sub>F</sub> (W)	I <sub>F</sub> =20mA	2.8	3.1	3.6	V
DC Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	10	μA
Domi. Wavelength*	λ <sub>D</sub> (Red)	I <sub>F</sub> =20mA	620	625	630	nm
	λ <sub>D</sub> (Green)	I <sub>F</sub> =20mA	520	525	530	nm
	λ <sub>D</sub> (Blue)	I <sub>F</sub> =20mA	465	470	475	nm
	CCT (W)	I <sub>F</sub> =20mA	5500	6500	7500	K
Luminous Intensity*	I <sub>v</sub> (Red)	I <sub>F</sub> =20mA	500	750	-	mcd
	I <sub>v</sub> (Green)	I <sub>F</sub> =20mA	900	1120	-	mcd
	I <sub>v</sub> (Blue)	I <sub>F</sub> =20mA	330	500	-	mcd
	I <sub>v</sub> (W)	I <sub>F</sub> =20mA	1600	2000	-	mcd
50% Power Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =20mA	-	140	-	deg

\*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).

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.