

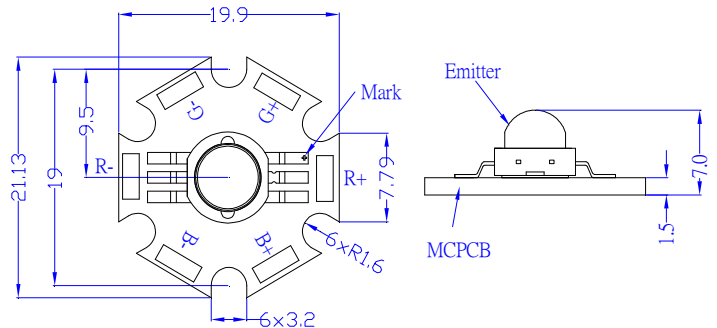
**■Features**

- Highest Luminous Flux
- Super Energy Efficiency
- Long Lifetime Operation
- Superior ESD protection
- Superior UV Resistance
- Water Clear Type

**■Applications**

- Mobile Phone Flash
- Automotive Interior/Exterior Lighting / Signal Lighting
- Architectural Lighting
- LCD TV / Monitor Backlight
- Projector Light Source / Traffic Signals / Task Lighting
- Decorative / Pathway Lighting / Household Applications

**■Outline Dimension**



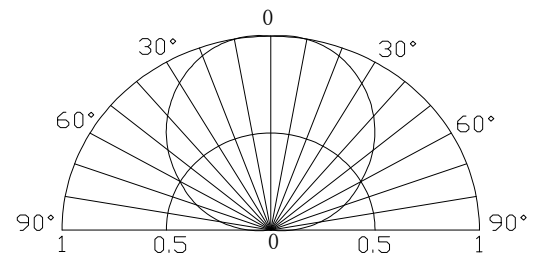
**■Absolute Maximum Rating**

(Ta=25°C)

| Item                       | Symbol           | Value      |            | Unit |
|----------------------------|------------------|------------|------------|------|
|                            |                  | Red        | Green/Blue |      |
| DC Forward Current         | I <sub>F</sub>   | 400        | 400        | mA   |
| Pulse Forward Current*     | I <sub>FP</sub>  | 500        | 500        | mA   |
| Reverse Voltage            | V <sub>R</sub>   | 5          | 5          | V    |
| Power Dissipation          | P <sub>D</sub>   | 1200       | 1600       | 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/5sec |            | -    |

\*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> =350mA | 2.0  | 2.5  | 3.0  | V    |
|                    | V <sub>F</sub> (B/G)   | I <sub>F</sub> =350mA | 3.0  | 3.3  | 4.0  | 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> =350mA | 620  | 625  | 630  | nm   |
|                    | λ <sub>D</sub> (Green) | I <sub>F</sub> =350mA | 520  | 525  | 535  | nm   |
|                    | λ <sub>D</sub> (Blue)  | I <sub>F</sub> =350mA | 455  | 460  | 465  | nm   |
| Luminous Flux      | Φ <sub>v</sub> (Red)   | I <sub>F</sub> =350mA | 40   | 50   | -    | lm   |
|                    | Φ <sub>v</sub> (Green) | I <sub>F</sub> =350mA | 80   | 95   | -    | lm   |
|                    | Φ <sub>v</sub> (Blue)  | I <sub>F</sub> =350mA | 15   | 20   | -    | lm   |
| 50% Power Angle    | 2θ <sub>1/2</sub>      | I <sub>F</sub> =350mA | -    | 120  | -    | deg  |

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

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

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

Note: Don't drive at rated current more than 5s without heat sink for Xeon 1 emitter series.