

# Xeon 1 Power Pure Green & Red & Blue LED

LPX1W-RGB1

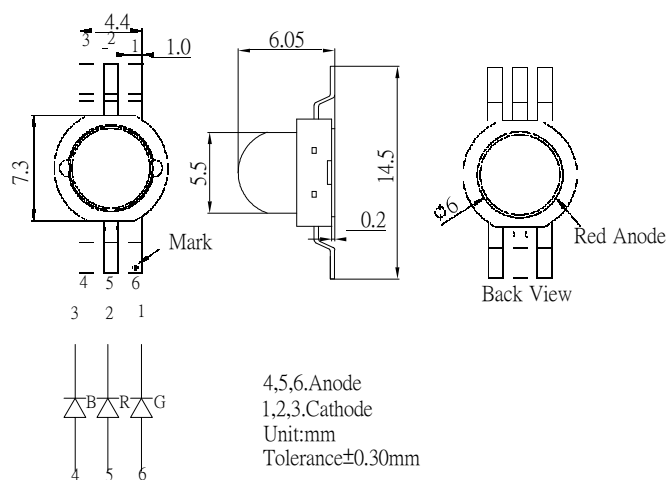
## ■Features

- 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

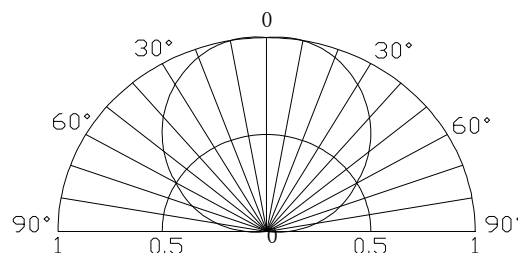


## ■Absolute Maximum Rating (Ta=25°C)

| Item                       | Symbol    | Value      |            | Unit |
|----------------------------|-----------|------------|------------|------|
|                            |           | Red        | Green/Blue |      |
| DC Forward Current         | $I_F$     | 400        | 400        | mA   |
| Pulse Forward Current*     | $I_{FP}$  | 500        | 500        | mA   |
| Reverse Voltage            | $V_R$     | 5          | 5          | V    |
| Power Dissipation          | $P_D$     | 1200       | 1600       | mW   |
| Operating Temperature      | $T_{opr}$ | -30 ~ +85  |            | °C   |
| Storage Temperature        | $T_{stg}$ | -40 ~ +100 |            | °C   |
| Lead Soldering Temperature | $T_{sol}$ | 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 | $V_F(R)$           | $I_F=350mA$ | 2.0  | 2.5  | 3.0  | V    |
|                    | $V_F(B/G)$         | $I_F=350mA$ | 3.0  | 3.3  | 4.0  | V    |
| DC Reverse Current | $I_R$              | $V_R=5V$    | -    | -    | 10   | μA   |
| Domi. Wavelength   | $\lambda_D(Red)$   | $I_F=350mA$ | 620  | 625  | 630  | nm   |
|                    | $\lambda_D(Green)$ | $I_F=350mA$ | 520  | 525  | 535  | nm   |
|                    | $\lambda_D(Blue)$  | $I_F=350mA$ | 455  | 460  | 465  | nm   |
| Luminous Flux      | $\Phi_v(Red)$      | $I_F=350mA$ | 40   | 50   | -    | lm   |
|                    | $\Phi_v(Green)$    | $I_F=350mA$ | 50   | 70   | -    | lm   |
|                    | $\Phi_v(Blue)$     | $I_F=350mA$ | 10   | 15   | -    | lm   |
| 50% Power Angle    | $2\theta_{1/2}$    | $I_F=350mA$ | -    | 120  | -    | deg  |

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

LED & Application Technologies

