

**■Features**

- Highest luminous flux
- Super energy efficiency
- Very long operating life
- Superior ESD protection

**■Caution**

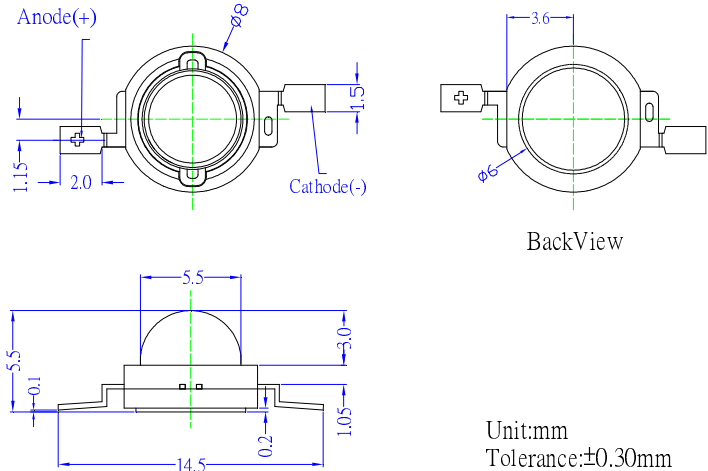
- Avoid Reflow Soldering Process

**■Applications**

- Green House Applications
- Red : Blue LED Radiant Power Ratio is 8:1\*

\*The ratio is summarized by the photosynthesis test on Phalaenopsis and provided from plant workshop in Taiwan.

**■Outline Dimension**

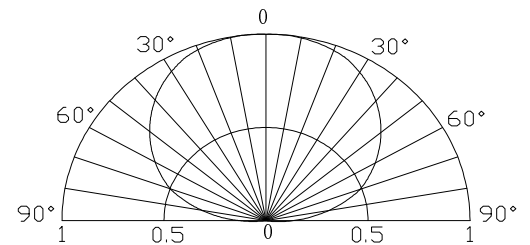


**■Absolute Maximum Rating**

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I <sub>F</sub>	700	mA
Pulse Forward Current*	I <sub>FP</sub>	1000	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	2100	mW
Operating Temperature	Topr	-30 ~ +85	°C
Storage Temperature	Tstg	-40~ +100	°C
Lead Soldering Temperature	Tsol	260°C/5sec	-

**■Directivity**



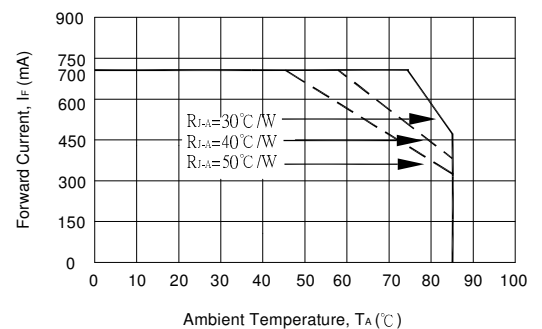
\*Pulse width Max.10ms, Duty ratio max 1/10

**■Electrical -Optical Characteristics**

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =700mA	2.3	2.5	3.0	V
DC Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	10	μA
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =700mA	720	730	740	nm
Radiant Power	P <sub>o</sub>	I <sub>F</sub> =700mA	-	240	-	mW
50% Power Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =700mA	-	120	-	deg

**■Forward Operating Current (DC)**



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