

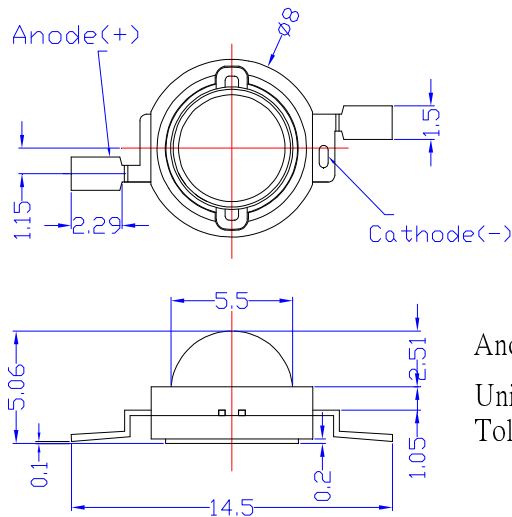
■Features

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

■Applications

- Night Vision
- Camera
- Outdoor./Indoor applications

■Outline Dimension



Anode —  Cathode

Unit:mm
Tolerance:±0.30mm

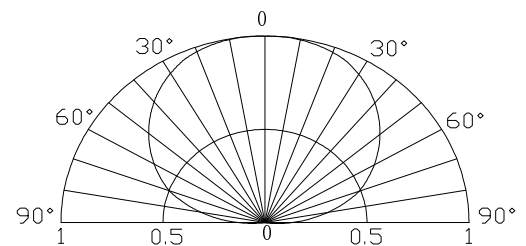
■Absolute Maximum Rating

(Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I _F	1,000	mA
Pulse Forward Current*	I _{FP}	7,000	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	2,000	mW
Operating Temperature	T _{opr}	-30 ~ +85	℃
Storage Temperature	T _{stg}	-40 ~ +100	℃
Lead Soldering Temperature	T _{sol}	260℃/5sec	-

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

■Directivity



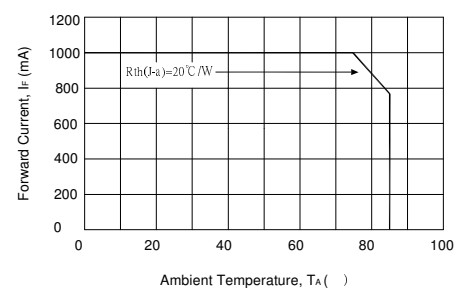
■Electrical -Optical Characteristics

(Ta=25℃)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V _F	I _F =700mA	1.2	1.5	2.0	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μA
Peak Wavelength	λ _p	I _F =700mA	-	940	-	nm
Radiant Intensity	I _e	I _F =700mA	50	68	-	mW/Sr
50% Power Angle	2θ _{1/2}	I _F =700mA	-	140	-	deg

Note: Advises please attach heat sink to use if Power Dissipation is more than 0.5W.

■Forward Operating Current (DC)



■ **Soldering Heat Reliability :**

Reflow soldering Profile

- Reflow soldering should not be done more than two times.
- When soldering, do not put stress on the LEDs during heating.
- After soldering, do not warp the circuit board.
- Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used. It should be confirmed beforehand whether the **characteristics of the LEDs will or will not be damaged by repairing.**

Solder
Average ramp-up rate = 3°C/sec. max.
Preheat temperature: 150°~180°C
Preheat time = 120 sec. max.
Ramp-down rate = 6°C/sec. max.
Peak temperature = 220°C max.
Time within 3°C of actual peak temperature = 25 sec. max.
Duration above 200°C is 40 sec. max.

