

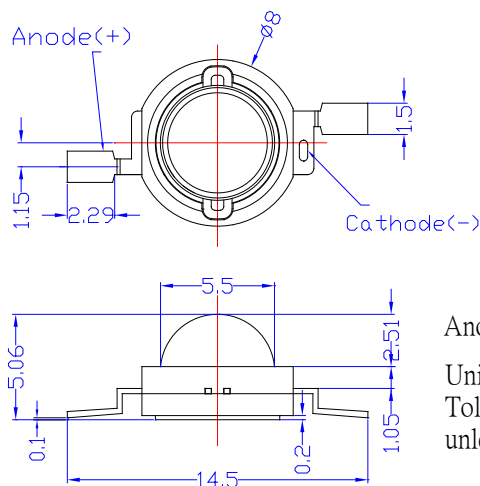
■Features

- High Radiant Power
- Super Energy Efficiency
- Long Lifetime Operation
- Superior UV Resistance

■Applications

- Night Vision
- Camera
- Outdoor/Indoor applications

■Outline Dimension



Anode  Cathode

Unit:mm
Tolerance:±0.20mm
unless otherwise noted

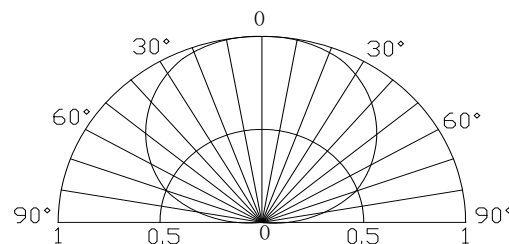
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I _F	400	mA
Pulse Forward Current#	I _{FP}	1750	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	0.8	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	Symbo	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	V _F	I _F =350mA	-	1.65	2.0	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μA
Peak Wavelength*2	λ _p	I _F =350mA	-	940	-	nm
Radiant Power*3	P _O	I _F =350mA	80	90	-	mW
Radiant Intensity*4	E _e	I _F =350mA	130	140	-	mW/Sr
50% Power Angle	2θ _{1/2}	I _F =350mA	-	140	-	deg

*1 Tolerance of measurements of forward voltage is ±0.1V

*2 Tolerance of measurements of peak wavelength is +1nm

*3 Tolerance of measurements of Radiant Power is ±15%

*4 Tolerance of measurements of radiant intensity is ±15%

Note: Don't drive at rated current more than 5s without heat sink for Xeon 0.8 emitter series.

■ 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.

