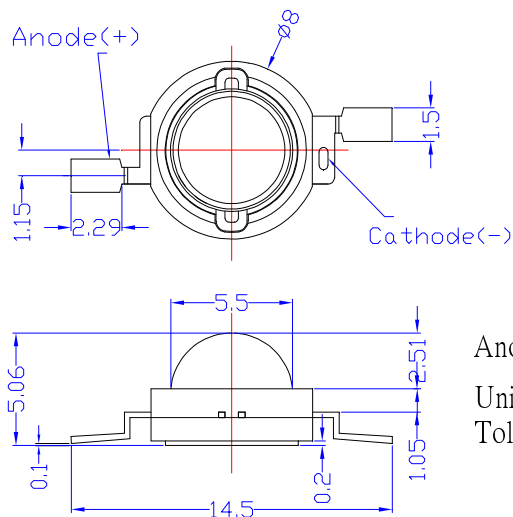![OptoSupply Light It Up]

■Features

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

■Applications

- Night Vision
- Camera
- Outdoor./Indoor applications

■Outline Dimension

Anode(+)   Ø8
1.15   2.29   1.5
Cathode(-)

5.5   2.51
5.06
0.1   0.2   1.05
14.5

Anode ——→ Cathode

Unit:mm
Tolerance:±0.30mm

■Absolute Maximum Rating   (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I_F	1000	mA
Pulse Forward Current*	I_{FP}	2000	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	1700	mW
Operating Temperature	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40~ +100	℃
Lead Soldering Temperature	Tsol	260℃/5sec	-

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

■Directivity
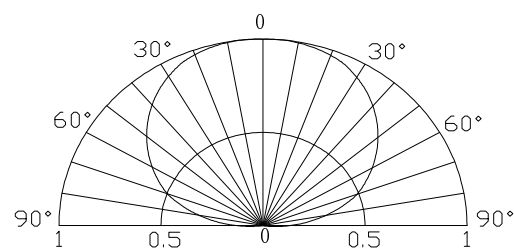
■Electrical -Optical Characteristics   (Ta=25℃)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V_F	I_F=350mA	-	1.5	1.7	V
DC Reverse Current	I_R	V_R=5V	-	-	10	μA
Peak Wavelength	λ_P	I_F=350mA	-	850	-	nm
Radiant Power	P_O	I_F=350mA	110	-	-	mW
50% Power Angle	$2\theta_{1/2}$	I_F=350mA	-	140	-	deg

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

■Forward Operating Current (DC)

Rth(J-a)=20℃/W
Rth(J-a)=30℃/W
Rth(J-a)=40℃/W

Forward Current, I_F (mA)
Ambient Temperature, T_A ( )

LED & Application Technologies
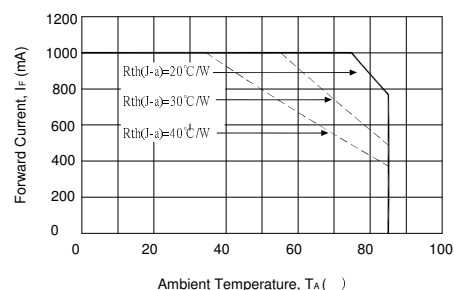
■ **Soldering Heat Reliability :**

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

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