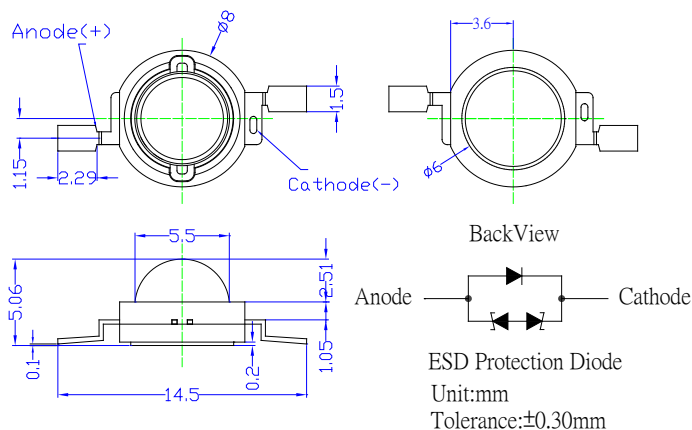


■ Features

- High Luminous Flux
- Super Energy Efficiency
- Long Life time Operation
- Superior ESD protection
- Superior UV Resistance

■ Outline Dimension



■ Applications

- Read lights (car, bus, aircraft)
- Portable (flashlight, bicycle)
- Bollards / Security / Garden
- Traffic signaling / Beacons
- Indoor / Outdoor commercial lights
- Automotive Ext

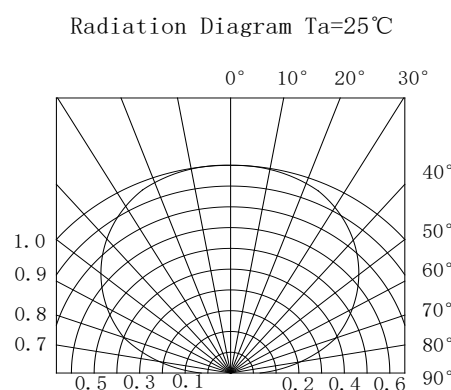
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I _F	700	mA
Pulse Forward Current#	I _{FP}	1000	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	3150	mW
Operating Temperature	T _{opr}	-30 ~ +85	°C
Storage Temperature	T _{stg}	-40~ +100	°C

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

■ Directivity



■Electrical -Optical Characteristics

($T_a=25^{\circ}\text{C}$)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage* ₁	V _F	I _F =350mA	3.0	3.3	4.0	V
		I _F =700mA	3.5	3.8	4.5	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μA
Luminous Flux* ₂	Φ _v	I _F =700mA	200	220	-	lm
Color Temperature* ₃	CCT	I _F =700mA	-	6500	-	K
Chromaticity Coordinates* ₄	x	I _F =700mA	-	0.31	-	-
	y	I _F =700mA	-	0.33	-	-
50% Power Angle	2θ _{1/2}	I _F =700mA	-	140	-	deg

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

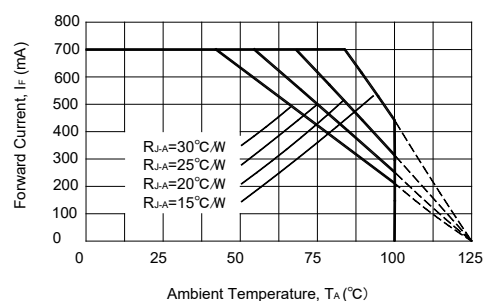
*2 Tolerance of measurements of luminous flux is +15%

*3 Tolerance of measurements of color temperature is $\pm 10\%$

*4 Tolerance of measurements of chromaticity coordinate is +10%

Note: Don't drive at rated current more than 5s without heat sink for Xeon 3 emitter series.

■ Forward Operating Current (DC)



■ Soldering Heat Reliability (DIP):

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.

