

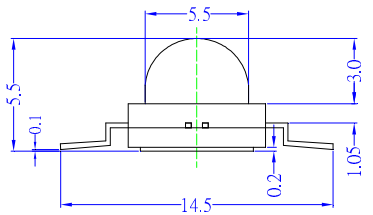
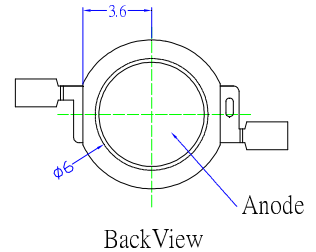
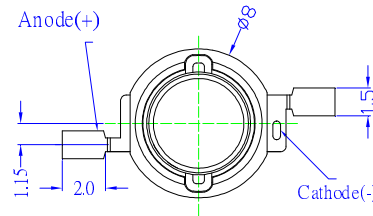
■Features

- Highest Luminous Flux
- Super energy efficiency
- Long Lifetime Operation
- Superior ESD protection
- Superior UV Resistance

■Applications

- Read lights (car, bus, aircraft)
- Portable (flashlight, bicycle)
- Bollards / Security / Garden
- Traffic signaling / Beacons
- In door / Out door Commercial lights
- Automotive Ext

■Outline Dimension



Unit:mm
Tolerance:±0.20mm
unless otherwise noted

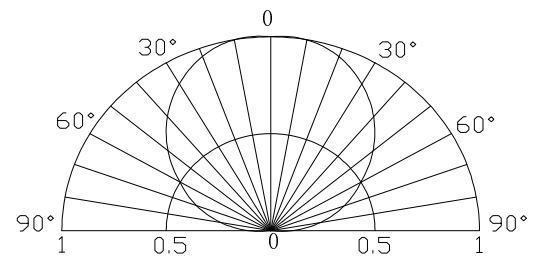
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I _F	800	mA
Pulse Forward Current#	I _{FP}	1000	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	2400	mW
LED Junction Temperature	T _j	115	°C
Operating Temperature	Topr	-30 ~ +85	°C
Storage Temperature	Tstg	-40~ +100	°C
Manual Soldering Temperature	Tsol	260°C/5sec	-

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

■Directivity



■Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	V _F	I _F =350mA	2.0	2.3	3.0	V
		I _F =700mA	2.5	2.8	3.5	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μA
Domi. Wavelength*2	λ _D	I _F =700mA	620	625	630	nm
Luminous Flux*3	Φ _v	I _F =700mA	70	80	-	lm
50% Power Angle	2θ _{1/2}	I _F =700mA	-	120	-	deg

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

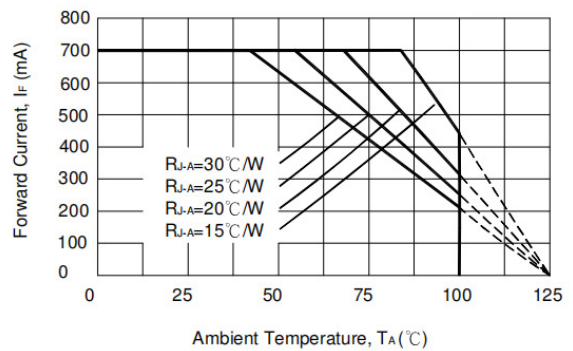
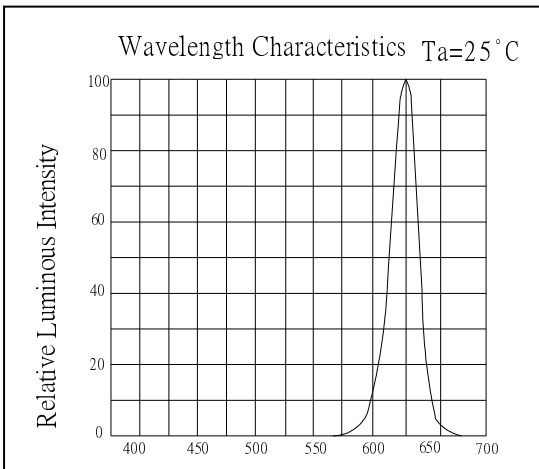
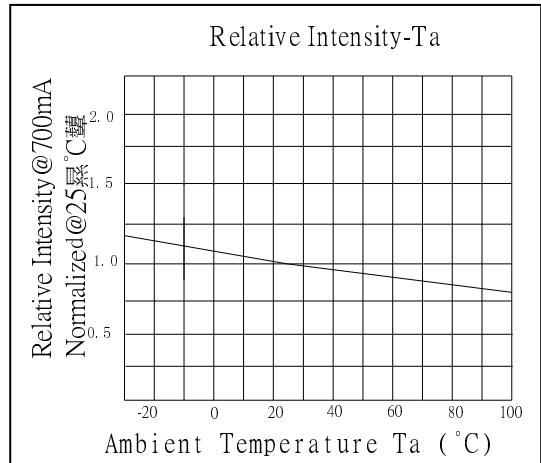
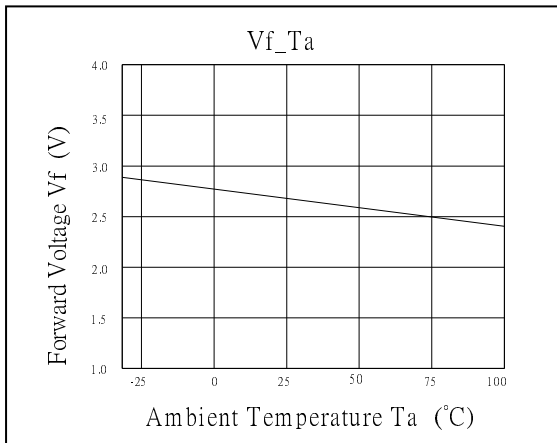
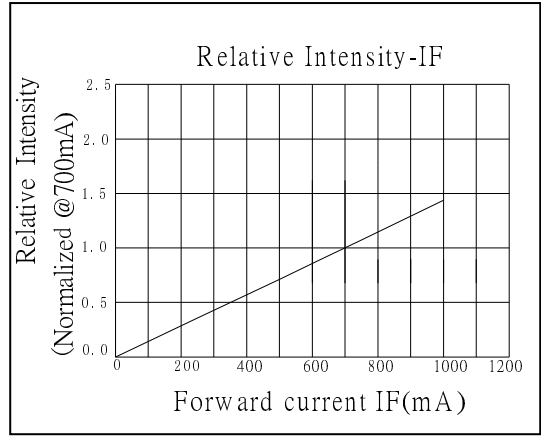
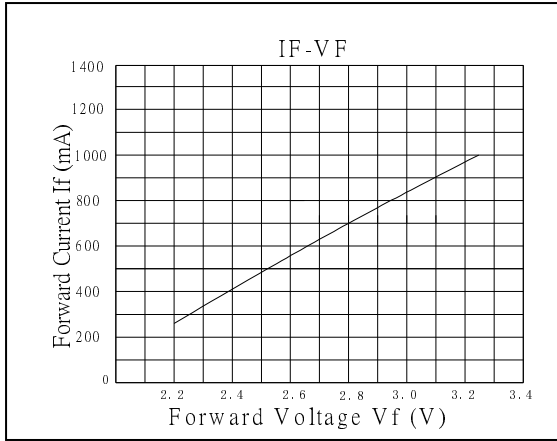
*2 Tolerance of measurements of dominant wavelength is ±1nm

*3 Tolerance of measurements of luminous Flux is ±15%

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

AlGaInP LED

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES



■ **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 =Low temperature + Lead Free
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.

