



**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES



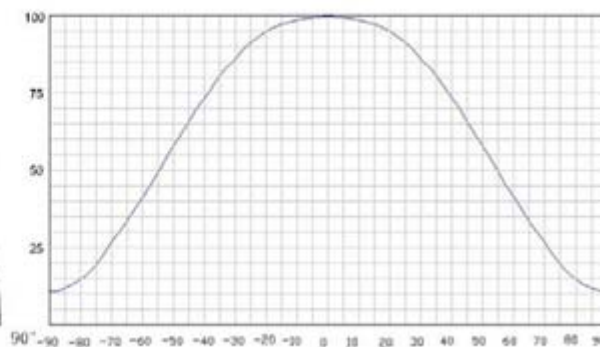
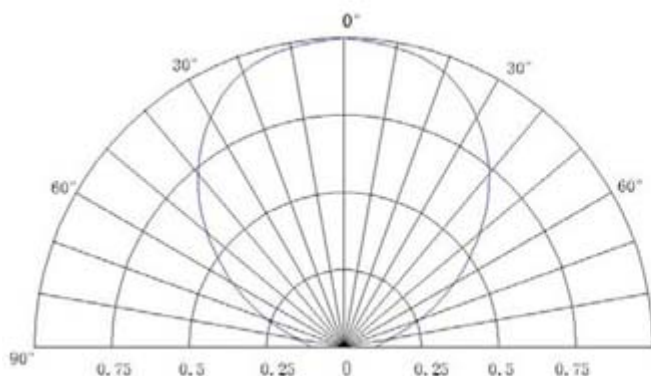
## Features

- Long operating life
- Highest flux
- Wide range of colours:2500K-25000K
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns )
- Fully dimmable
- No UV
- Superior ESD protection
- lower  $R_{th}$
- RoHS compliant

## Applications

- Reading lights (car, bus, aircraft)
- LCD Backlights/light Guides
- Fiber optic alternative/ Decorative / Entertainment
- Mini-accent/Up lighters/Down lighters/ Orientation
- Indoor/Outdoor commercial and Residential Architectural
- Cove/Under shelf/Task
- Bollards/Security/Garden
- Portable (flashlight, bicycle)
- Edge-lit signs (Exit, point of sale)
- Automotive Exit (Stop-Tail-Turn,CHMSL, Mirror Side Repeat)
- Traffic signaling / Beacons / RailCrossing and Wayside

## ■ Radiation Pattern





## ■ Typical Optical/ Electrical Characteristics @T<sub>J</sub>=25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F(R)</sub>	IF=350mA	2.2	--	2.8	V
	V <sub>F(G)</sub>		3.2	--	3.8	V
	V <sub>F(B)</sub>		3.2	--	3.8	V
Reverse Current	I <sub>R</sub>	VR=5v	--	--	50	uA
50% Power Angle	2θ1/2	IF=350mA	120	140	160	deg
Luminous Intensity	Φ <sub>v</sub> (R)	IF=350mA	35	--	45	lm
	Φ <sub>v</sub> (G)		55	--	70	lm
	Φ <sub>v</sub> (B)		15	--	25	lm
Recommend Forward Current	I <sub>F</sub>	--	--	350	--	mA
Wave Length	λ d(R)	IF=350mA	620	--	630	nm
	λ d(G)		515	--	525	nm
	λ d(B)		455	--	470	nm

- Notes:** 1.Tolerance of measurement of forward voltage±0.1V.  
 2.Tolerance of measurement of peak Wavelength±2.0nm.  
 3.Tolerance of measurement of luminous intensity±15%.

## ■ Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I <sub>F</sub>	350	mA
Peak Forward Current*	I <sub>FP</sub>	500	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	1000	mW
Electrostatic discharge	E <sub>SD</sub>	±4500	V
Operation Temperature	T <sub>OPR</sub>	-40~+80	°C
Storage Temperature	T <sub>STG</sub>	-40~+100	°C
Lead Soldering Temperature*	T <sub>SOL</sub>	Max. 260°C for 3sec Max.	

\*IFP Conditions: Pulse Width≤10msec duty≤1/10

\* All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

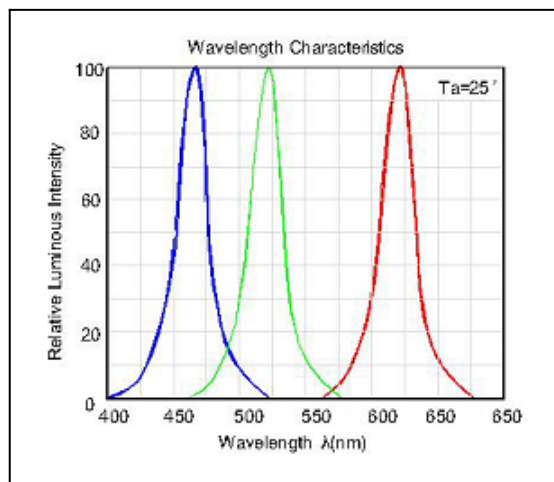
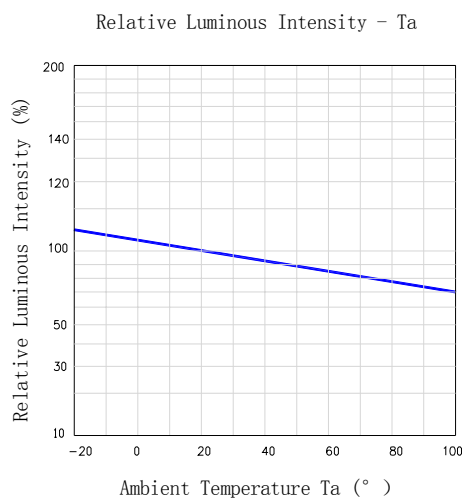
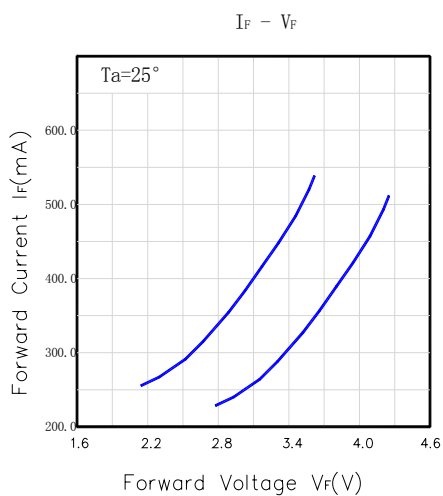
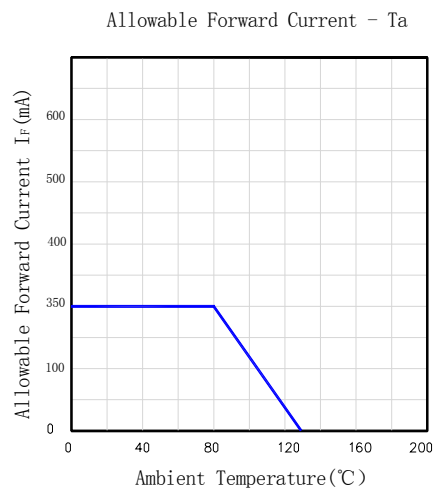
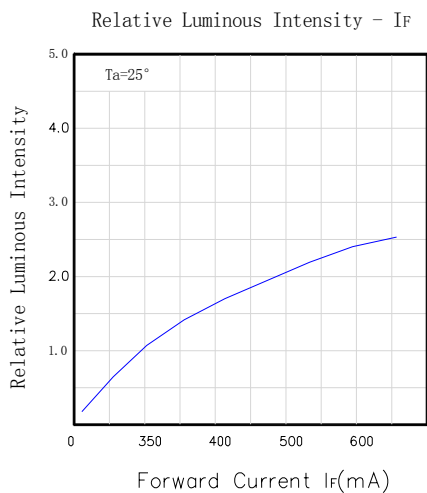
\*Re-flow,wave peak and soak-stannum soldering etc.is not suitable for this products.

\*Suggest to solder it by professional high power LED soldering machine.

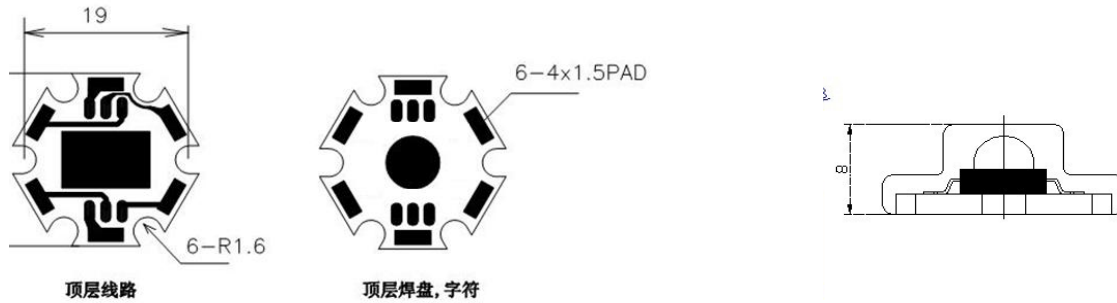
\*Can use invariable-temperature searing-iron with soldering condition : ≤260 degree less than 3 seconds.

## ■ Typical Optical/Electrical Characteristics Curves

( $T_J=25^\circ\text{C}$  Unless Otherwise Noted )



## Package Dimensions



- Notes:**
1. All dimension units are millimeters.
  2. All dimension tolerance is  $\pm 0.2\text{mm}$  unless otherwise noted.
  3. The brass column of heat sink of the high power LED is Anode. Please pay more attention to the necessary installation, when installing The heat dissipate on equipments and connecting the electric circuit in avoid of short circuit and destroying.

## ■ Tape Specifications (Units : mm)

