

### **ATTENTION**

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



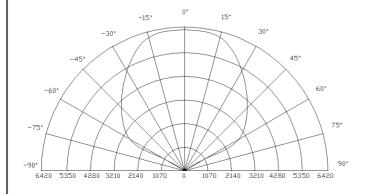
#### **Features**

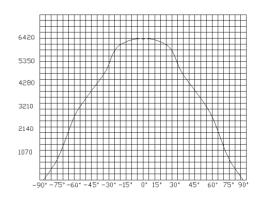
- Long operating life
- Highest flux
- Available in White:2500K-25000K
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection
- Eutectic die bonding
- 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℃

Item	Symbol	Condition	Min.	Тур.	Max.	Unit	
Forward Voltage	$V_{F}$	IF=150mA	3.0		3.8	V	
Reverse Current	I <sub>R</sub>	VR=5v			50	uA	
50% Power Angle	201/2	IF=150mA	110		140	deg	
Luminous Intensity	φν	IF=150mA	23.5	26.8		lm	
Recommend Forward Current	I <sub>F</sub>			150		mA	
Chromaticity	Тс	IF=150mA	5000		10000	k	
Thermal Resistance, Junction to Case	RJP	IF=150mA		10		°C/w	
The sample delivers goods data							
Item	Symbol	Condition	Min.	Avg.	Max.	Unit	
Luminous Intensity	φν		30.6	34.9		lm	
50% Power Angle	201/2	IF 450m A				deg	
Forward Voltage	V <sub>F</sub>	IF=150mA	3.2	3.4		V	
Chromaticity	Tc		6000	6326	7000	k	
White Color Region							
ChromaticityCoordinates	X=			Y=			

#### 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%.

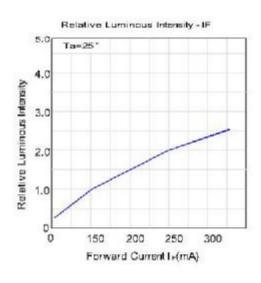
### **Absolute Maximum Rating**

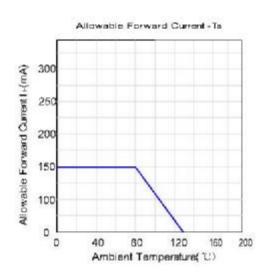
Item	Symbol	Absolute Maximum Rating	Unit	
Forward Current	I <sub>F</sub>	150	mA	
Peak Forward Current*	I <sub>FP</sub>	200	mA	
Reverse Voltage	$V_R$	5	V	
Power Dissipation	$P_D$	500	mW	
Electrostatic discharge	E <sub>SD</sub>	±2000	V	
Operation Temperature	T <sub>OPR</sub>	-40~+80	$^{\circ}$ C	
Storage Temperature	T <sub>STG</sub>	-40~+100	$^{\circ}$	
Lead Soldering Temperature*	T <sub>SOL</sub>	Max. 260°C for 3sec Max.		

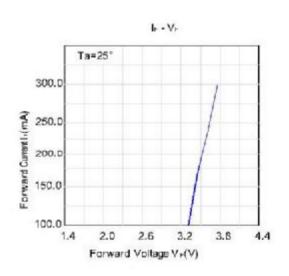
<sup>\*</sup>IFP Conditions: Pulse Width≤10msec duty≤1/10

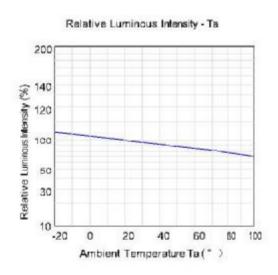
- \* All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.
- \* Re-flow, wave peak and soak-stannum soldering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

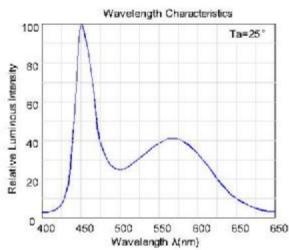
# Typical Optical/Electrical Characteristics Curves (T<sub>J</sub>=25℃ Unless Otherwise Noted )



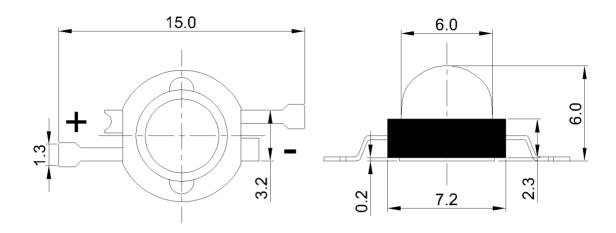








## **Package Dimensions**



#### Notes:

- 1. All dimension units are millimeters.
- 2. All dimension tolerance is ±0.2mm unless otherwise noted.

### **Tape Specifications(Units:mm)**

