

Under Development	
Mass production	●



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



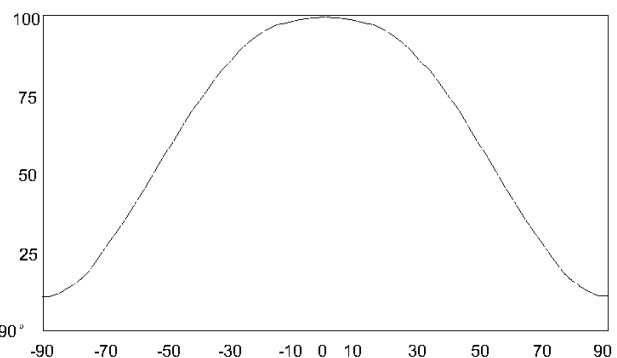
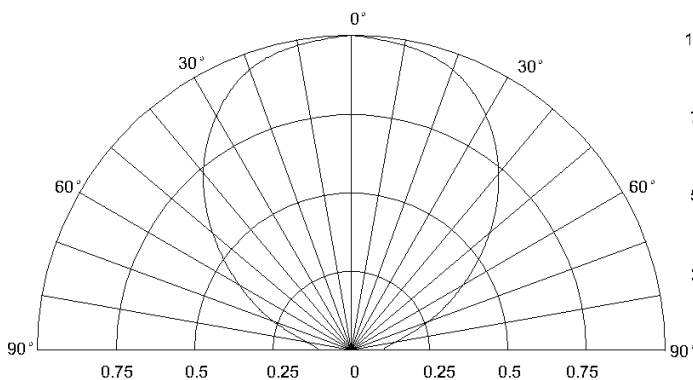
### Features

- Long operating life
- Highest flux
- Wide range of colours:2500K-25000K
- 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°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	IF=1.6A	--	8	--	V
Reverse Current	I <sub>R</sub>	VR=5v	--	--	50	uA
50% Power Angle	2θ1/2	IF=1.6A	110	--	140	deg
Luminous Intensity	φ <sub>V</sub>	IF=1.6A	220	420	--	lm
Recommend Forward Current	I <sub>F</sub>	--	--	1.6	--	A
Chromaticity	T <sub>C</sub>	IF=1.6A	5000	--	10000	k

The sample delivers goods data

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	φ <sub>V</sub>	IF=1.6A	465	--	--	lm
50% Power Angle	2θ1/2		--	--	--	deg
Forward Voltage	V <sub>F</sub>		7.5	8	--	v
Chromaticity	T <sub>C</sub>		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>	1.6	A
Peak Forward Current*	I <sub>FP</sub>	1.7	A
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	10	W
Electrostatic discharge	E <sub>SD</sub>	±2000	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

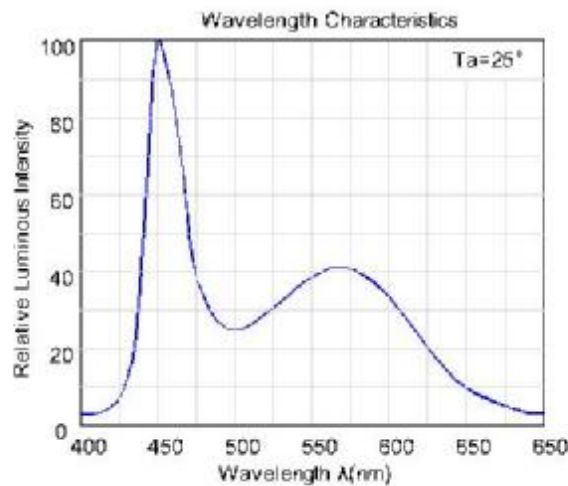
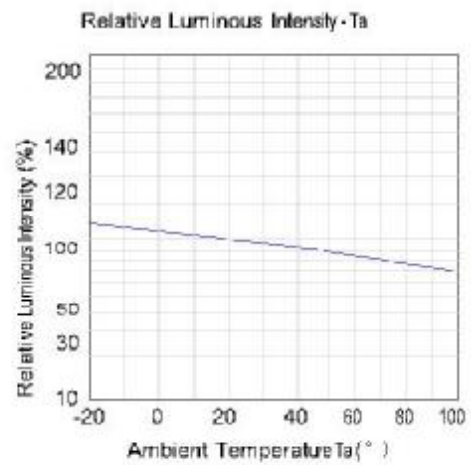
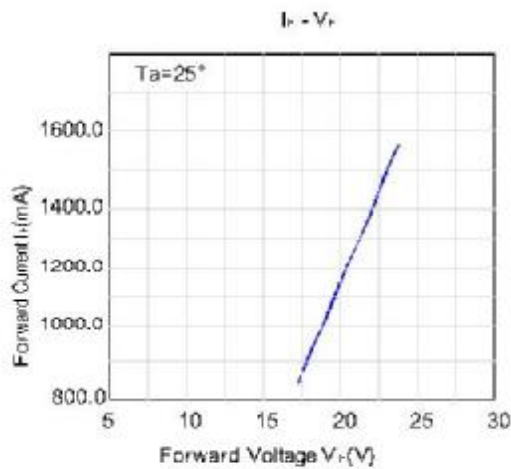
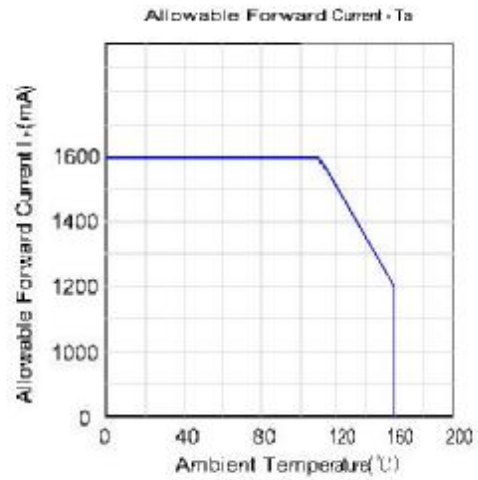
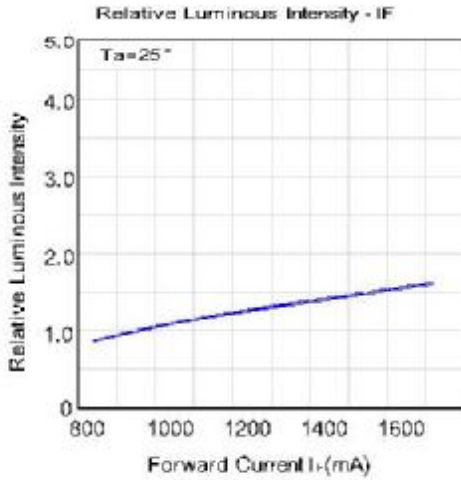
\* All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

\*Please don't add or change wires,while LEDS is running

\* The LED of this a series can lead the heat reflux of 250 Celsius degrees Han but be free from damage.

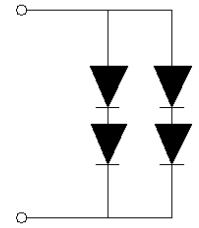
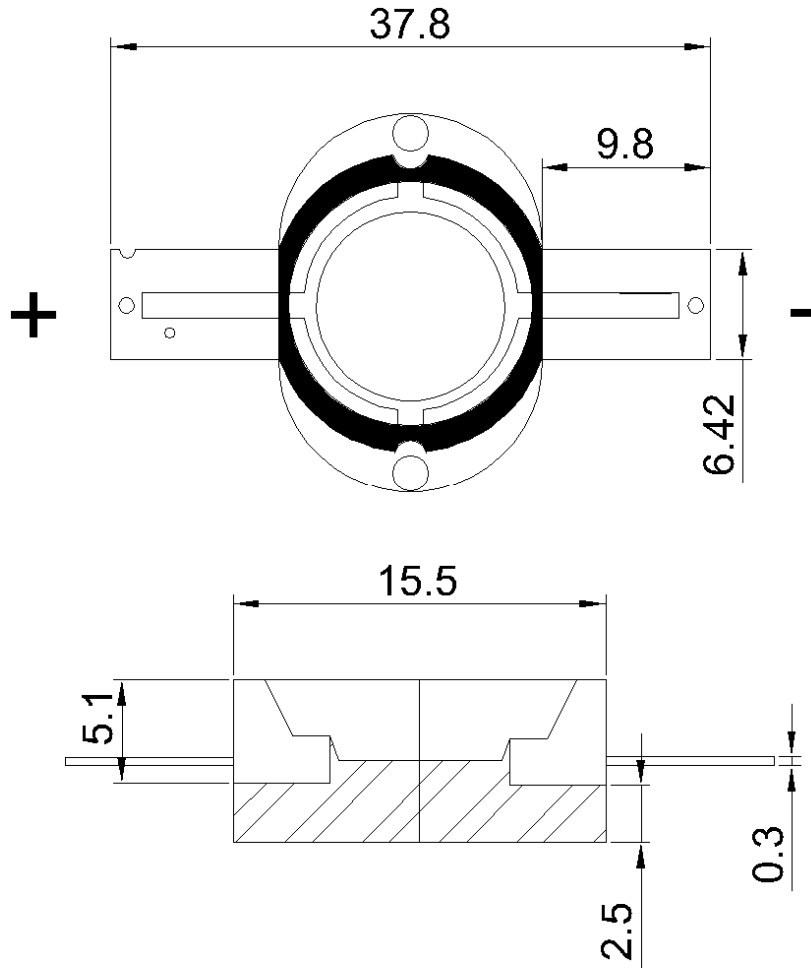
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### Typical Optical/Electrical Characteristics Curves ( $T_J=25^\circ\text{C}$ Unless Otherwise Noted)



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**Package Dimensions**



**Notes:**

1. All dimension units are millimeters.
2. All dimension tolerance is  $\pm 0.2\text{mm}$  unless otherwise noted.