



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



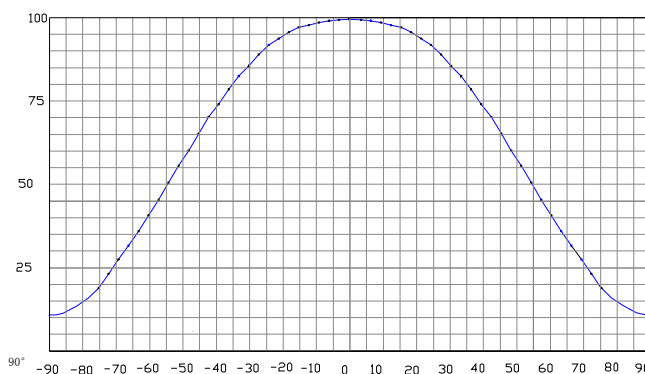
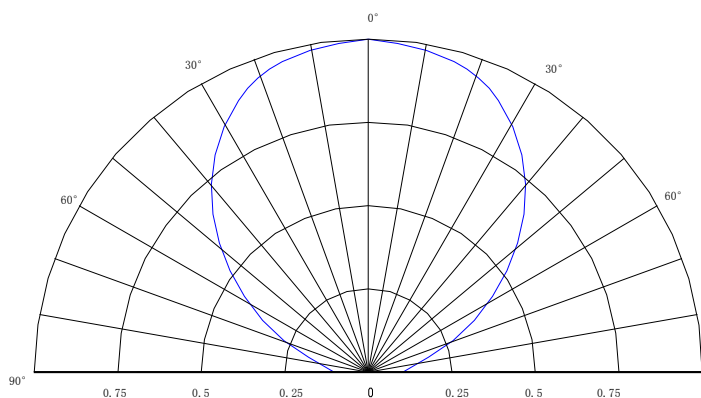
Features

- Highest flux per LED family in the world
- Very long operating life (up to 100k hours)
- Available in Full Colors
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Fully dimmable
- No UV
- Superior ESD protection
- Eutectic die band
- RoHS compliant—lead-free
- Instant light (less than 100ns)

Applications

- Portable (flashlight, bicycle)
- Reading lights(car, bus, aircraft)
- Orientation
- Mini-accent
- Decorative
- Fiber optic alternative
- Appliance
- Sign and channel letter
- Architectural detail
- Cove lighting
- Automotive exterior
(Stop-Tail-turn, CHMSL,
Mirror side repeat)
- Edge-lit signs(Exit, point of sale)

■ Radiation Pattern



Typical Optical/ Electrical Characteristics @T_J=25℃

Item	Symbol	Condition	Min.	Typ.	Max	Unit
Forward Voltage	V _F (R)	IF=350mA	2.2	2.4	2.8	V
	V _F (G)		3.0	3.4	3.8	
	V _F (B)		3.0	3.4	3.8	
Reverse Current	I _R	VR=5v	--	--	50	uA
50% Power Angle	2θ1/2	IF=350mA	--	140	--	deg
Recommend Forward Current	I _F	--	--	350	--	mA
Luminous Intensity	Φ _V (R)	IF=350mA	23.5	30	39.8	lm
	Φ _V (G)		39.8	55	59.8	
	Φ _V (B)		6.3	9	13.7	
Wave Length	λ d(R)	IF=350mA	610	620	640	nm
	λ d(G)		510	525	550	
	λ d(B)		440	470	490	

- 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

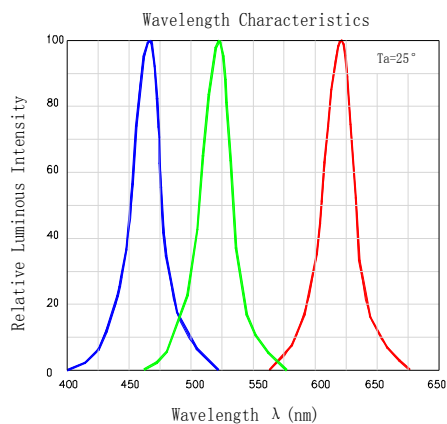
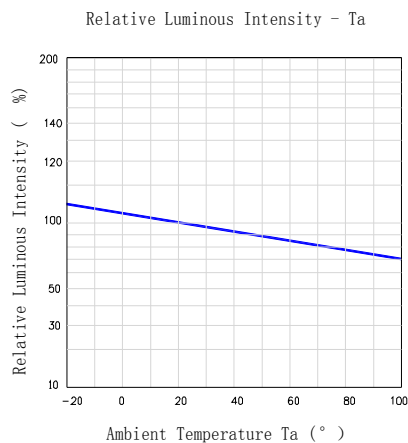
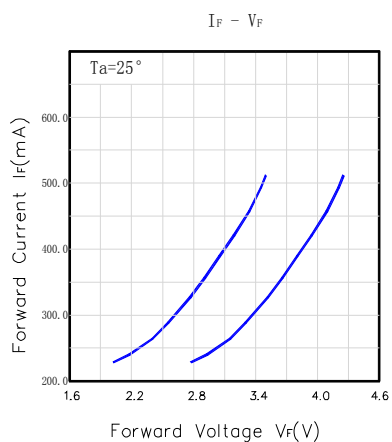
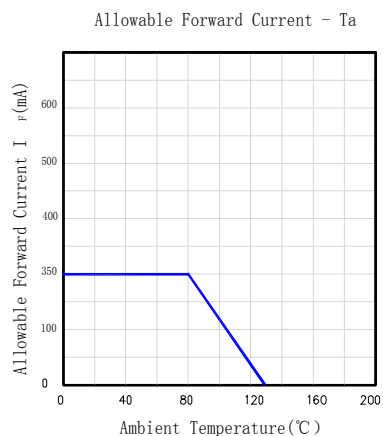
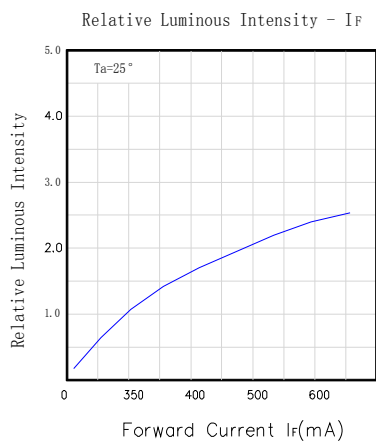
Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I _F	350	mA
Peak Forward Current*	I _{FP}	500	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	1000	mW
Electrostatic discharge	E _{SD}	±4500	V
Operation Temperature	T _{OPR}	-40~+80	℃
Storage Temperature	T _{STG}	-40~+100	℃
Lead Soldering Temperature*	T _{SOL}	Max. 260℃ for 6sec Max.	

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

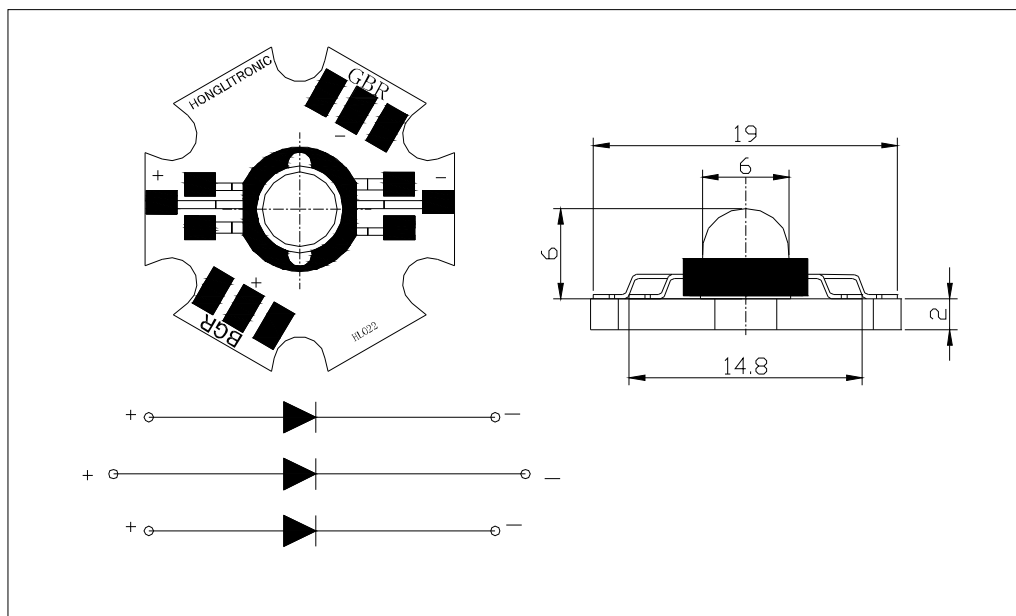
* All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

■ Typical Optical/Electrical Characteristics Curves

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



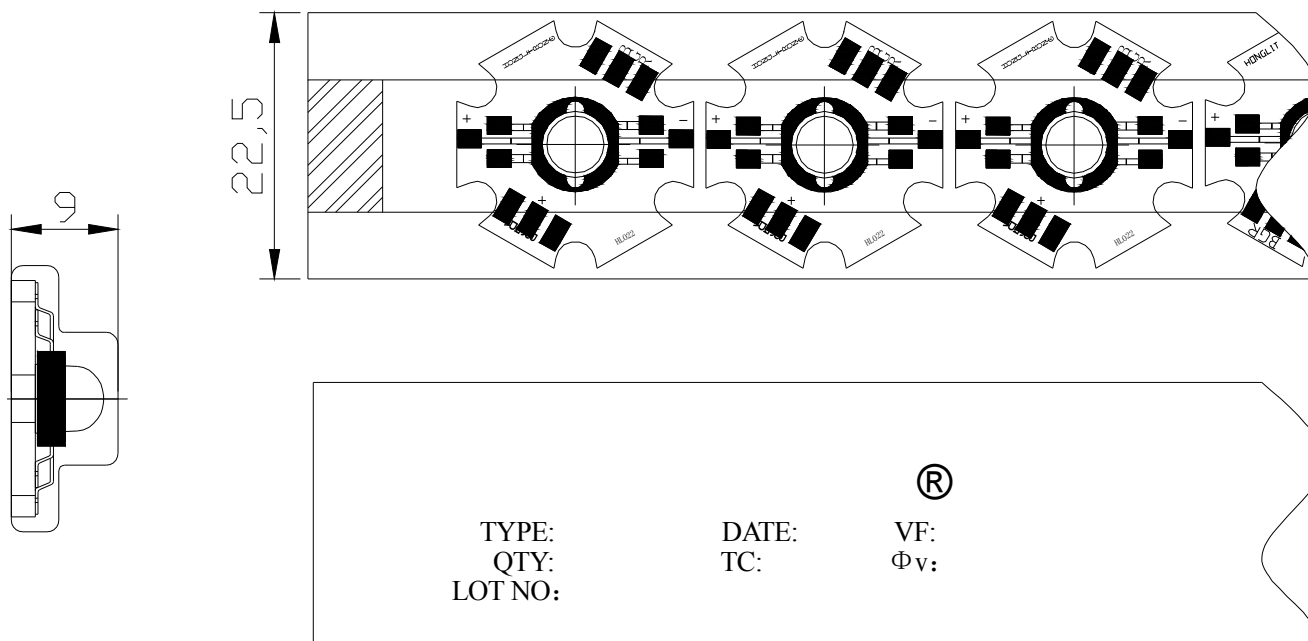
Package Dimensions



Notes: 1. All dimension units are millimeters.

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

■ Tape Specifications (Units : mm)



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