

FYLP-1W-RGBL-5.9

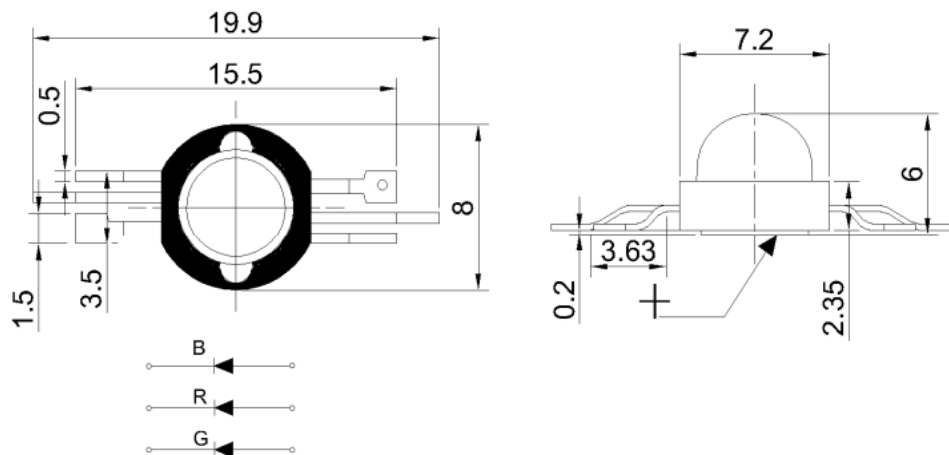
Features:

- Long operating life
- Highest flux
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Available in Red\Green\Blue
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- ROHS compliant

Applications

- Reading lights(car, bus, aircraft)
- LCD Backlights /light Guides
- Fiber optic alternative/Decorative/Entertainment
- Indoor/Outdoor commercial and Residential Architectural
- Mini-a ccent/Up lighters/Down lighters/ Orientation
- 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

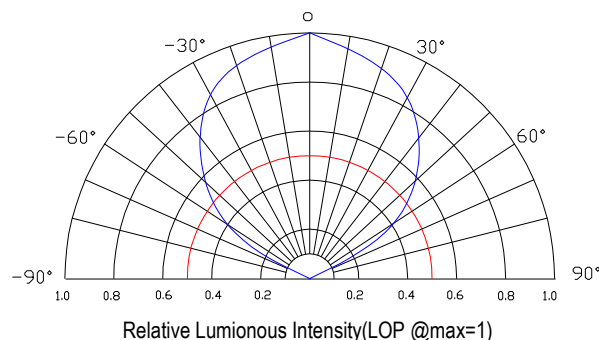
Package Dimensions



Notes:

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

Radiation Pattern



Typical Optical/Electrical Characteristics @TJ=25°C

Item		symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	R	VF	IF=350mA	2.0	-	3.0	V
	G			3.0		4.0	
	B			3.0		4.0	
Luminous Intensity	R	Φv		35	40		LM
	G			50	60		
	B			8	11		
Wave length	R	λ D		620	630		nm
	G			520	530		
	B			460	470		
Recommend Forward Current		IF			350		mA
Reverse Current		IR	VR=5V			50	uA
50% Power Angle		2θ _{1/2}	IF=350mA	120	130	140	deg

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

■ Absolute Maximum Rating

Item	symbol	Absolute Maximum Rating	Unit
Forward Current	IF	350	mA
Peak Forward Current*	IFD	500	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	1000	mW
Operation Temperature	TOPR	-30°C to +80°C	
Storage Temperature	TSTG	-40°C to +100°C	
Lead Soldering Temperature*	TSOL	260°C for 3 Seconds Max	

- IFP Conditions :Pulse Width $\leq 10msec$ duty $\leq 1/10$
- 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 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 (Tj=25°C Unless Otherwise Noted)

