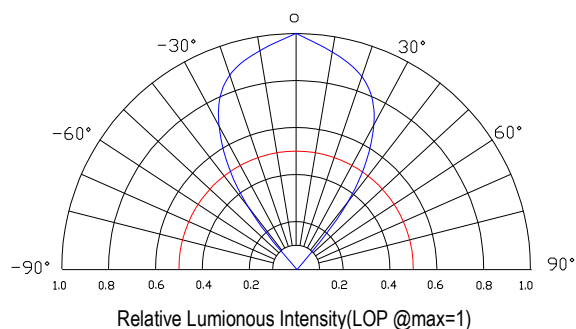


FYLP- 0.5W-UW

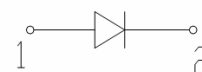
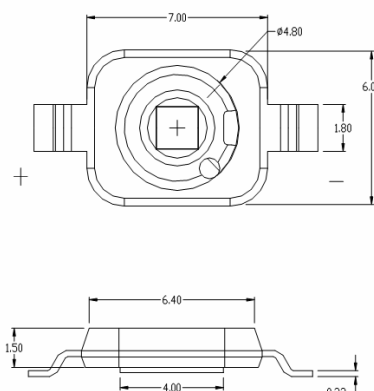
Features:

- Long operating life
- Highest flux
- Available in White
- 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 band,lower Rth.
- ROHS compliant –Lead-free
- Instant light (less than 100ns)

Radiation Pattern



Package Dimensions



Applications

- Reading lights (car,bus,aircraft)
- Portable(flashlight,bicycle).
- 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)

■ **Typical Optical/Electrical Characteristics@T_J=25℃**

Item	symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =150mA	3.0	-	3.6	V
Reverse Current	I _R	V _R =5V			50	uA
50% Power Angle	2θ _{1/2}	I _F =150mA	65	70	75	deg
Luminous Intensity	Φ _v	I _F =150mA	20	25	--	LM
Recommend Forward Current	I _F			150		mA
Chromaticity coordinates	X	I _F =150mA		0.30		
	Y			0.30		
Thermal Resistance, Junction to Case	R _{jp}	I _F =150mA		10		℃/W

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

■ **Absolute Maximum Rating**

Item	symbol	Absolute Maximum Rating	Unit
Forward Current	I _F	150	mA
Peak Forward Current*	I _{FD}	300	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	500	mW
Electrostatic discharge	ESD	± 4500	V
Operation Temperature	T _{OPR}	-30℃ to +80℃	
Storage Temperature	T _{STG}	-40℃ to +100℃	
Lead Soldering Temperature*	T _{SOL}	260℃ for 3 Seconds Max	

- IFP Conditions :Pulse Width $\leq 10\text{ msec}$ 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: $\leq 260\text{ degree}$ less than 3 seconds.

■ Typical optical/Electrical Characteristics Curves ($T_j=25^{\circ}\text{C}$ Unless Otherwise Noted)

