FORYARD
OPTOELECTRONICS

HIGH POWER

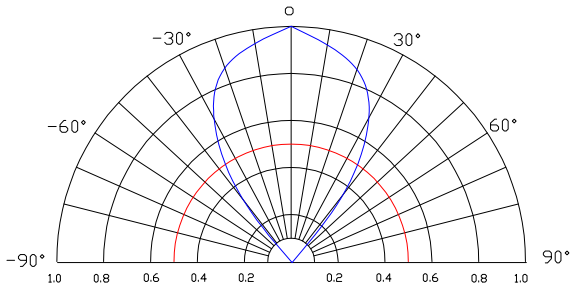
FYLP- 0.5W-UW

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

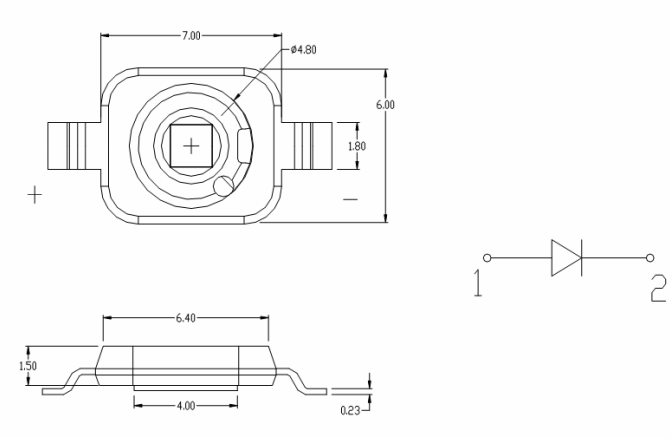
- Instant light (less than 100ns)

Radiation Pattern



Relative Lumionous Intensity(LOP @max=1)

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)

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

Item	symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=150mA	3.0	-	3.6	V
Reverse Current	IR	VR=5V			50	uA
50% Power Angle	$2\theta_{1/2}$	IF=150mA	65	70	75	deg
Luminous Intensity	Φv	IF=150mA	20	25	--	LM
Recommend Forward Current	IF			150		mA
Chromaticiyt coordinates	X	IF=150mA		0.30		
	Y			0.30		
Thermal Resistance, Junction to Case	Rjp	IF=150mA		10		℃/W

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	IF	150	mA
Peak Forward Current*	IFD	300	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	500	mW
Electrostatic discharge	ESD	± 4500	V
Operation Temperature	TOPR	-30℃ to +80℃	
Storage Temperature	TSTG	-40℃ to +100℃	
Lead Soldering Temperature*	TSOL	260℃ for 3 Seconds Max	

- **IFP Conditions :Pulse Width** ⩽10 msec 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 directly,but we do not recommend lighting the high powe 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.**
- **Sueggest to solder it by professional high power LED soldering machine.**
- **Can use invariable –temperature searing-iron with soldering condition:** ⩽260 degreen less than 3 seconds.

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■ Typical optical/Electrical Characteristics Curves (Tj=25℃ Unless Otherwise Noted)