## FYLP-5W-PGL

## Features:

Radiation Pattern

- Long operating life
- Highest flux per Led family in the world.
- Available in Pure green
- 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 100 ns )
- Fully dimmable.
- No UV
- Superior ESD protection
- Eutectic die bonding
- ROHS compliant
- Instant light


## Package Dimensions

## Applications

- Reading lights (car,bus,aircraft)
- LCD Backlights /light Guides
- Fiber optic alternative/Decorative/Entertainment
- Mini-accent/Up lighters/Down lighters/ Orientation
- Indoor/Outdoor commerclal and Residentlal 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)
- Trafficsignaling /Beacons/railCrossing and Wayside.

HIGH POWER

■ Typical Optical/Electrical Characteristics@TJ=25 ${ }^{\circ} \mathrm{C}$

| Item | symbol | Condition | Min | Typ | Max | Unit |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Forward Voltage | VF | $\mathrm{IF}=1.2 \mathrm{~A}$ | 3.2 | -- | 4.2 | V |
| Reverse Current | IR | $\mathrm{VR}=5 \mathrm{~V}$ |  |  | 50 | uA |
| $50 \%$ Power Angle | $2 \theta_{1 / 2}$ | $\mathrm{IF}=1.2 \mathrm{~mA}$ | 100 | 110 | 120 | deg |
| Luminous Intensity | $\Phi \mathrm{V}$ | $\mathrm{IF}=1.2 \mathrm{~mA}$ | 130 | 150 | - | LM |
| Recommend Forward Current | IF |  |  | 1.2 |  | A |
| Wave length | $\lambda \mathrm{d}$ | $\mathrm{IF}=1.2 \mathrm{~A}$ | 520 | - | 525 | nm |
| Thermal Resistance,Junction to | Case | Rjp | $\mathrm{IF}=1.2 \mathrm{~A}$ |  | 18 |  |
| ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |  |  |  |  |  |  |

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

■ Absolute Maximum Rating

| Item | symbol | Absolute Maximum Rating | Unit |
| :--- | :---: | :---: | :---: |
| Forward Current | IF | 1.2 | A |
| Peak Forward Current* | IFD | 1.3 | A |
| Reverse Voltage | VR | 5 | V |
| Power Dissipation | PD | 5 | W |
| Electrostatic discharge | Esd | 4500 |  |
| Operation Temperature | TopR | $-30^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$ | V |
| Storage Temperature | TSTG | $-40^{\circ} \mathrm{C}$ to $+100^{\circ} \mathrm{C}$ |  |
| Lead Soldering Temperature ${ }^{*}$ | Tsol | $260^{\circ} \mathrm{C}$ for 3 Seconds Max |  |

- IFP Conditions :Pulse Width $\leqslant 10 \mathrm{msec}$ duty $\leqslant 1 / 10$
- 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: $\leqslant 260$ degreen less than 3 seconds.


## HIGH POWER

- Typical optical/Electrical Characteristics Curves $\left(\mathrm{Tj}=25^{\circ} \mathrm{C}\right.$ Unless Otherwise Noted)



