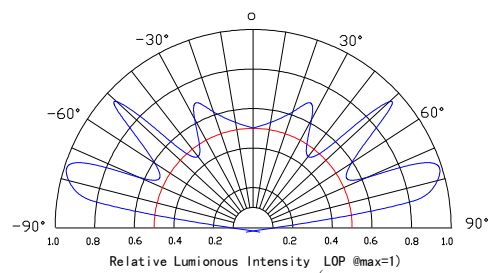


FYLP-3W-UPGS

Features:

- Very Long operating life
- Highest flux
- 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 100ns)
- Fully dimmable
- No UV
- Lower Rth
- ROHS compliant

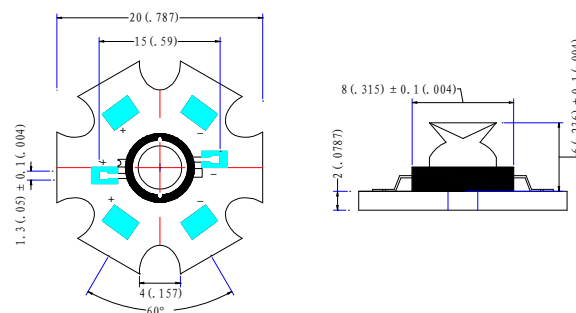
Radiation Pattern



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 commercial and Residential 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)
- Traffic signaling /Beacons/rail Crossing and Wayside



■ Typical Optical/Electrical Characteristics@T_J=25℃

Item	symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =800mA	3.4	3.6	4.0	V
Reverse Current	I _R	V _R =5V			50	uA
50% Power Angle	2θ _{1/2}	I _F =800mA	-	175	-	deg
Luminous Intensity	Φ _v	I _F =800mA	70	80		LM
Recommend Forward Current	I _F			800		mA
Wave length	λ _d	I _F =350mA	515	520	525	nm
Thermal Resistance,Junction to Case	R _{jp}	I _F =350mA		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 $\pm 15\%$.

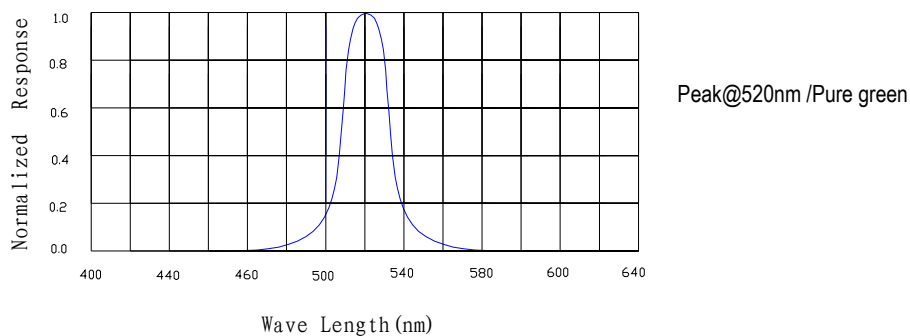
■ Absolute Maximum Rating

Item	symbol	Absolute Maximum Rating	Unit
Forward Current	I _F	800	mA
Peak Forward Current*	I _{FD}	1200	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	3000	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	

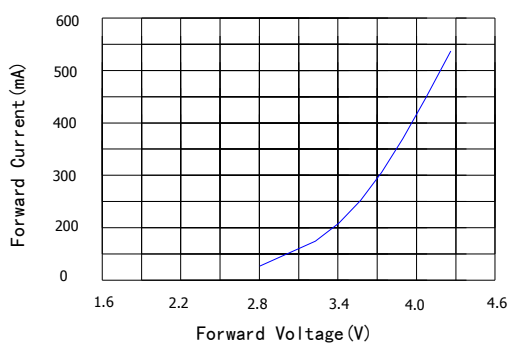
- IFP Conditions :Pulse Width $\leq 10\text{ msec}$ duty $\leq 1/10$
- All high Power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly ,but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation 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 (Tj=25°C Unless Otherwise Noted)

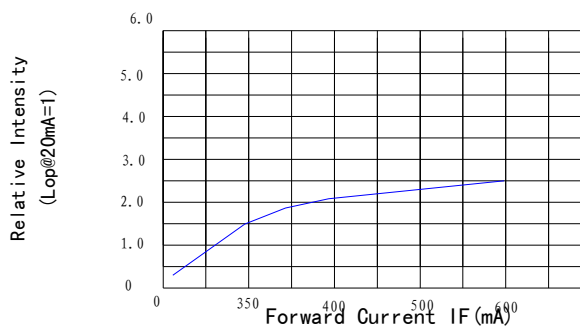
Spectral Reduance



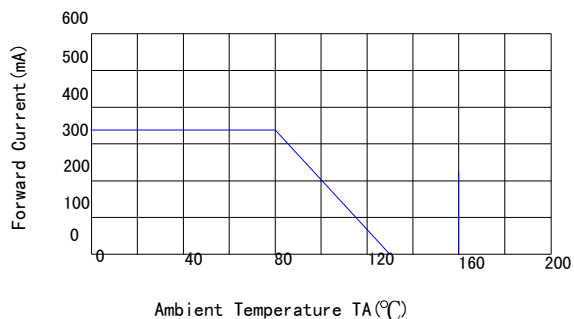
Forward Current Vs Forward Voltage



Relative Luminous intensity vs Forward current



Forward Current Derating Curve



Luminous Intensity Vs. Ambient Temperature

