

ARPL-1W Blue (14B1N)



FEATURES

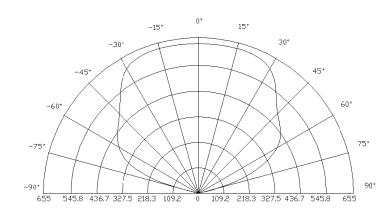
- · Long operating life
- Highest flux
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- · Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection
- · RoHS compliant

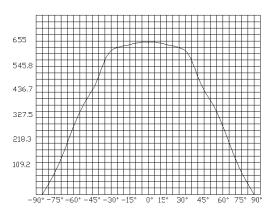
- Fiber optic alternative/Decorative/entertainment
- Mini-accet/Up lighters/Down lighters/Orientation
- Indoor/Outdoor commercial and Residential Architectural
- Cove/Under shelf/Task

APPLICATIONS

- Bollards/Security/Garden
- Portable(flashlight,bicycle)
- Edge-lit signs (Exit,point of sale)
- Automotive Exit (Stop-Tail-Tum, Chmsl, Mirror Side Repeat)
- Traffic signaling/Beacons/RailCrossing and Wayside

RADIATION PATTERN





ELECTRICAL / OPTICAL CHARACTERISTICS AT TA=25°C

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V _F (R)	IF=350mA	3.0		3.8	V
Reverse Current	I_R	VR=5V			30	uA
50% Power Angle	201/2	IF=350mA	120		140	deg
Luminous Intensity	φ _ν (R)	IF=350mA	18.1	23.5		lm
Recommend Forward Current	$I_{\scriptscriptstyle F}$				350	mA
Wave Length	$\lambda_{_{d}}$	IF=350mA	460		470	nm
Thermal Resistance, Junction to Case	RJP	IF=350mA		10		°C/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%.



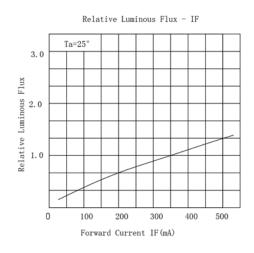
ABSOLUTE MAXIMUM RATING

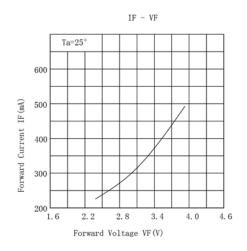
Item	Symbol	Absolute Maximum Rating	Unit	
Forward Current	I _F	350	mA	
Peak Forward Current*	I _{FP}	500	mA	
Reverse Voltage	V _R	5	V	
Power Dissipation	P _D	1000	mW	
Electrostatic discharge	E _{sp}	±2000	V	
Operation Temperature	T _{OPR}	-40~+80	°C	
Storage Temperature	T _{STG}	-40~+100	°C	
Lead Soldering Temperature*	T _{SOL}	Max. 260°C for 3sec Max.		

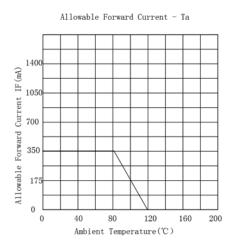
^{*}IFP Conditions: Pulse Width≤10msec duty≤1/10

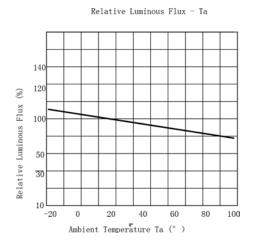
TYPICAL OPTICAL/ELECTRICAL CHARACTERISTICS CURVES

(Ta=25°C Unless Otherwise Noted)









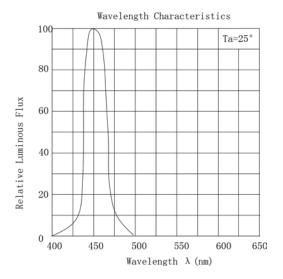
^{*} All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a ap-propriate heat dissipation equipment.

^{*} Re-flow, wave peak and soak-stannum soldering etc. is not suitable for this products.

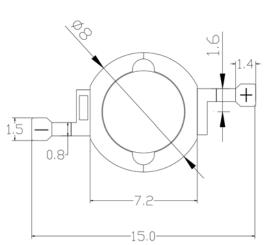
^{*} Suggest to solder it by professional high power LED soldering machine.

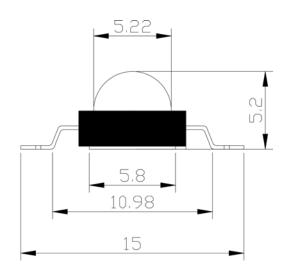
^{*} Can use invariable-temperature searing-iron with soldering condition: ≤260 degree less than 3 seconds.





PACKAGE DIMENSIONS





Notes:

- 1. All dimension units are millimeters.
- 2. All dimension tolerance is ± 0.2 mm unless otherwise noted.

