ARPL-0.5W Red

FEATURES

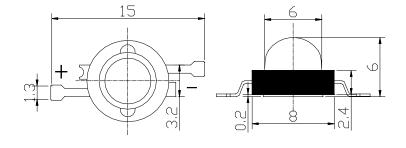
- Long operating life
- Highest flux
- Available in Red
- Lambertian radiation pattern
- More energy efficient than incandescent
- and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch

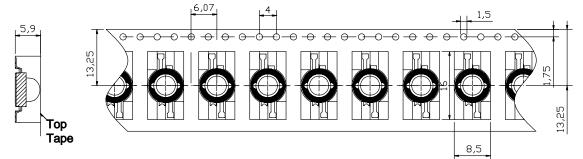
APPLICATIONS

- 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

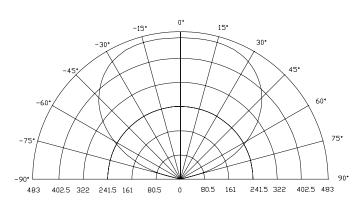
PACKAGE DIMENSIONS

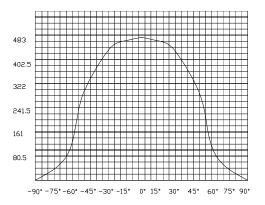
- Instant light (less than 100ns)
- Fully dimmable
 - No UV
 - Superior ESD protection
 - Eutectic die bonding
- RoHS compliant
- Cove/Under shelf/Task
- Bollards/Security/Garden
- Portable (flashlight, bicycle)
- Edge-lit signs (Exit, point of sale)
- Automotive Exit (Stop-Tail-Turn,CHMSL,
- Mirror Side Repeat)
- Traffic signaling / Beacons / RailCrossing and Wayside

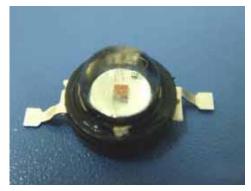




RADIATION PATTERN









Typical Optical/ Electrical Characteristics @T =25°C

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	I _F =150mA	2.0		2.8	V
Reverse Current	I _R	V _R =5V			50	μA
50% Power Angle	2θ _{1/2}	I _F =150mA	110		140	deg
Luminous Intensity	lv	I _F =150mA	8.2		23.5	lm
Recommend Forward Current	L _F			150		mA
Wave Length	Тс	I _F =150mA	615		625	k
Thermal Resistance, Junction to Case	R _{JP}	I _F =150mA		10		°C/W

Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit	
Forward Current	L _F	150	mA	
Peak Forward Current*	L _{FR}	200	mA	
Reverse Voltage	V _R	5	V	
Power Dissipation	P _D	500	mW	
Electrostatic discharge	Esd	<u>+</u> 4500	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.		

Note:

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

* Our MCPCBis usual use for installation and connection during application, but the ability of heat dissipation is

not enough. If lighted, our high power stars will need better another type heat dissipation equipment. So we

recommend the working time is not over 5-10 seconds without any heat dissipation equipment.

*Re-flow,wave peak and soak-stannumsoldering 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.

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

