ARPL-9W RGB/6-pin (RGBF93)

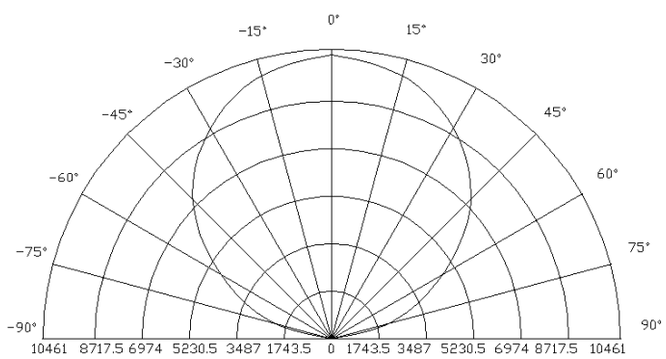
FEATURES

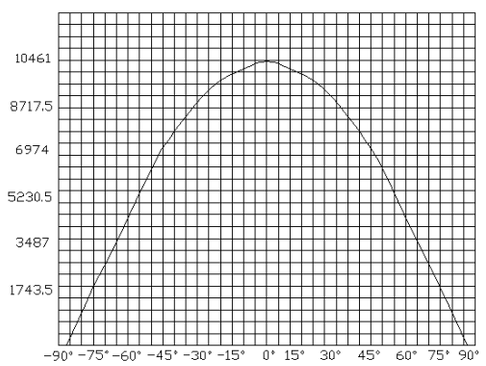
- Long operating life
- Highest flux
- Available in Full color
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection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

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)
- Traffic signaling / Beacons / Rail-Crossing and Wayside

RADIATION PATTERN





ELECTRICAL / OPTICAL CHARACTERISTICS AT TA=25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F (R)	IF=800mA	2.0		3.0	V
	V_F (G)		3.0		4.0	
	V_F (B)		3.0		4.0	
Reverse Current	I_R	VR=5V	--	--	50	uA
50% Power Angle	2θ1/2	IF=800mA	120	--	140	deg
Luminous Intensity	φ_V(R)	IF=800mA	76.6	87.4		lm
	φ_V(G)		99.7	113.6		
	φ_V(B)		23.5	26.8		
Recommend Forward Current	I_F	- -	--	800	--	mA
Wave Length	λ_d(R)	IF=800mA	620	630		nm
	λ_d(R)		520	530		
	λ_d(R)		460	470		

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%.

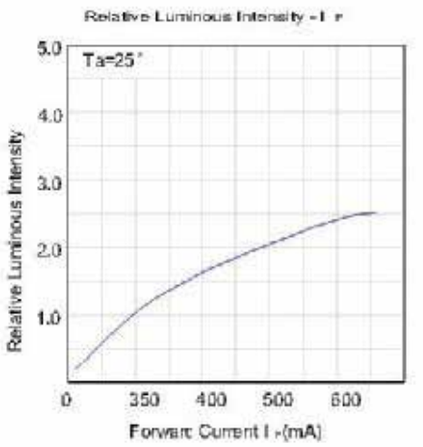
ABSOLUTE MAXIMUM RATING

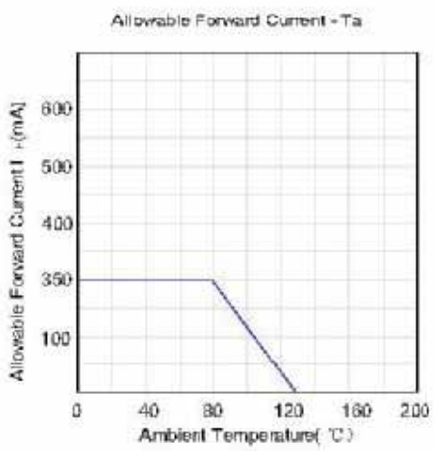
Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	800	mA
Peak Forward Current*	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	3x3000	mW
Electrostatic discharge	E_{SD}	±2000	V
Operation Temperature	T_{OPR}	-40~+80	°C
Storage Temperature	T_{STG}	-40~+100	°C
Lead Soldering Temperature*	T_{SOL}	Max. 260°C for 3sec Max.	

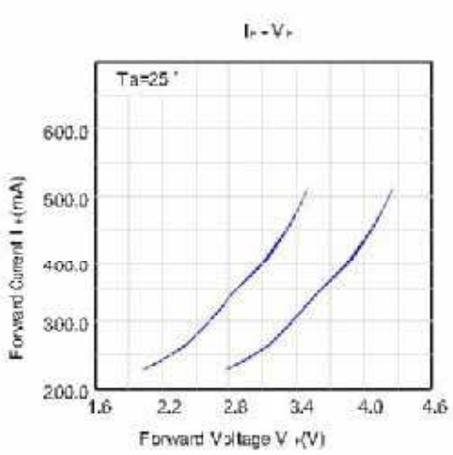
** IFP Conditions: Pulse Width≤10msec duty≤1/10*
** All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.*
**Please don't add or change wires,while LEDS is running*
** The LED of this a series can lead the heat reflux of 250 Celsius degrees Han but be free from damage.*

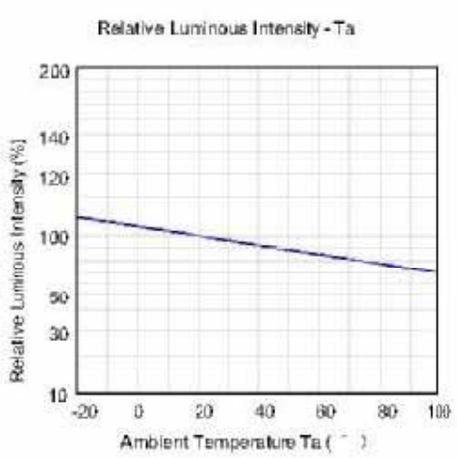
TYPICAL OPTICAL/ELECTRICAL CHARACTERISTICS CURVES

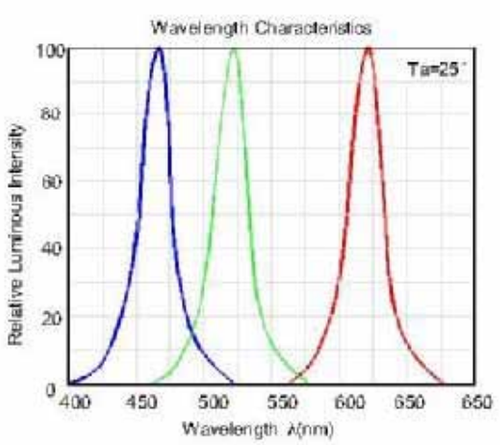
(Ta=25°C Unless Otherwise Noted)



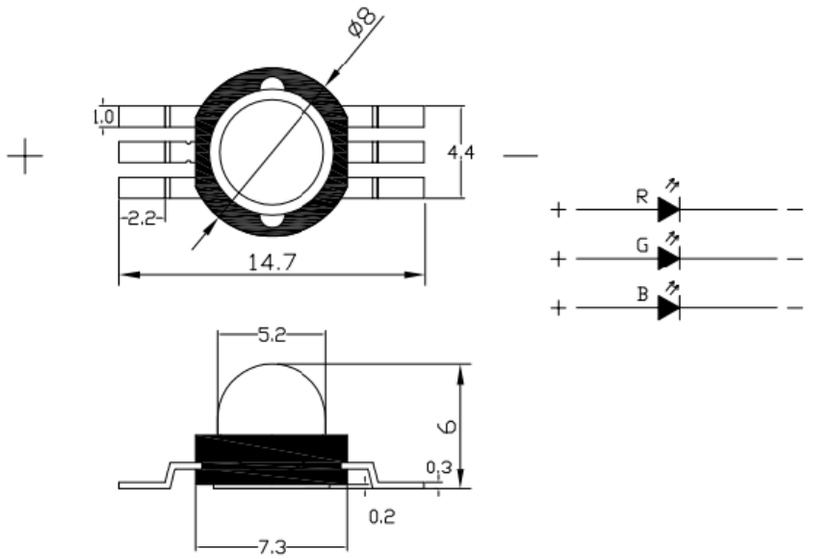








PACKAGE DIMENSIONS



Notes:

1. All dimension units are millimeters.

2. All dimension tolerance is ±0.2mm unless otherwise noted.