

## 9W high power led



RMS-P9RGB140D-XT-CA

- 1, This high power led lamp use imported material aluminum Star heatsink.
- 2, Safe product with low work voltage, low heat and Long life span.
- 3, Can be multiplied color as Red, Yellow, Green, Blue, White Orange and purple, making the light effect more attractive.
- 4, This high power led is direct die bonding to pure copper lead frame, good soldering ability, low thermal resistance.

**XX XX XX XX-- XX**

1 2 3 4 5 6 7

### Part Number

( )

2- P : High Power LED

3- XX: Power

05-0.5W , 1-1W, 3-3W , 5-5W, 10-10W , 50-50W , 100-100W

4- XX: Emitted Color

**Red(R) Yellow(Y) Blue(B) Green(G) Orange(O)**

**Purple(P) White(W)**

5- XX: Viewing Angle

60 - 60deg 90 - 90deg 120- 120deg 140 - 140deg

175 - 175deg

6- X : body model

7- XX: Brightness Grade

60- 60lm 100 - 100-110lm 2000-2000-2500lm

## Absolute Maximum Ratings at Ta=25°C

Item	Symbol	Absolute Maximum Rating	Unit
DC Forward Current	$I_F$	350	mA
Peak Forward Current	$I_F$	500	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	9	w
Electrostatic discharge	ESD	±4500	V
Operation Temperature	Topr	-40~+80	°C
Storage Temperature	Tstg	-40~+100	°C
LeadSoldering Temperature	Tsol	Max.260°C for 6 seconds Max.	

**Notes:**\* IFP Conditions: pulse Width≤10msec.

\* 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.

## Electrical Optical Characteristics at Ta=25°C

Parameter	Color	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	R	$V_F$	7.0	---	8.0	v	$I_F=350mA$
	G		10	---	12		
	B		10	---	12		
Reverse Current	R,G,B	$I_R$	---	---	50	uA	$V_R=5v$
50% Power Angle	R,G,B	$2\theta_{1/2}$	---	140	---	deg	$I_F=350mA$
Luminous Intensity	R	$\phi_v$	30	---	40	Lm/w	$I_F=350mA$
	G		60	---	70		
	B		10	---	20		
Chromaticity	R	$\lambda_d$	620	---	630	nm	$I_F=350mA$
	G		520	---	530		
	B		460	---	470		

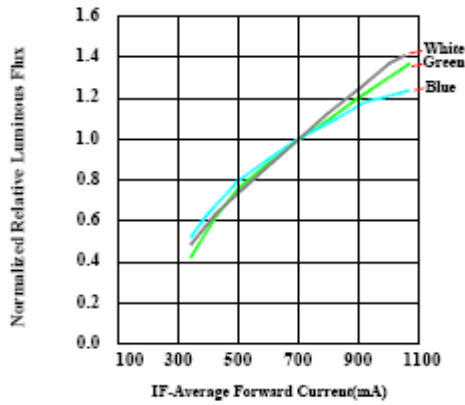
**Notes:** 1.Tolerance of measurement of forward voltage±0.1V.      2.Tolerance of measurement of peak

Wavelength±2.0nm.

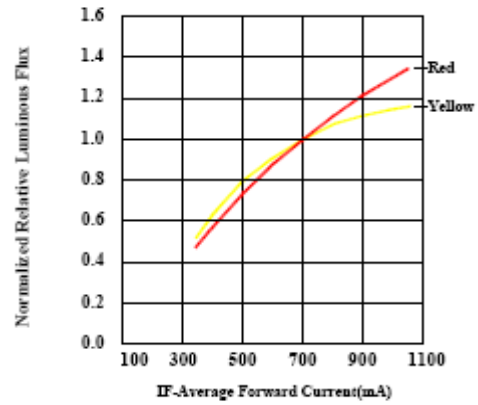
3.Tolerance of measurement of luminous intensity±15%.

■ Typical Electrical/ Optical Characteristics Curves  
(Ta=25°C Unless Otherwise Noted) :

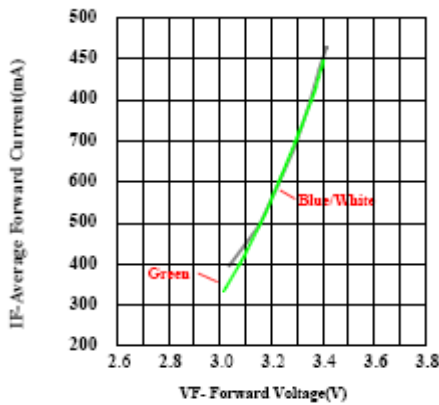
**Forward Current Characteristics**



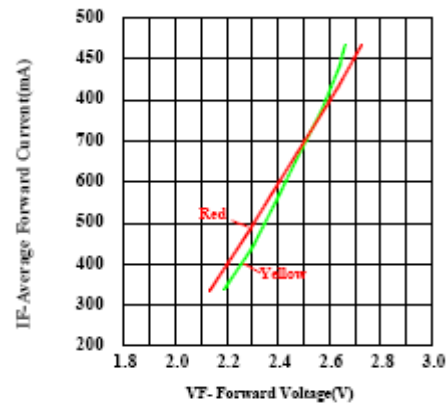
Relative Luminous Flux vs. Forward Current for White/Green/Blue



Relative Luminous Flux vs. Forward Current for Red/Yellow

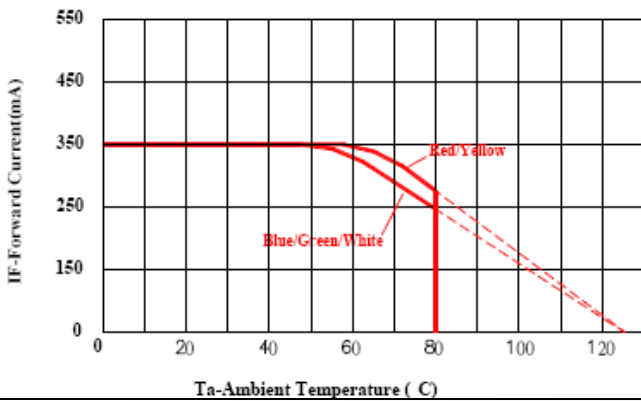


Forward Current vs. Forward Voltage for White/Green/Blue

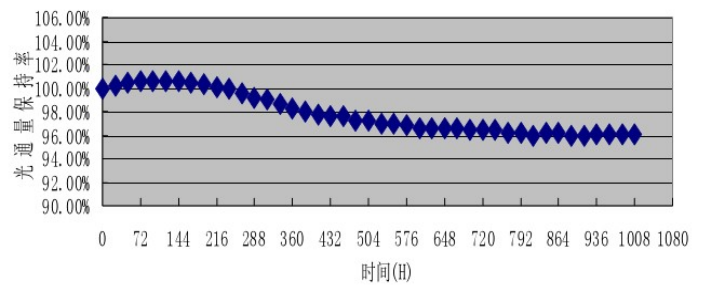


Forward Current vs. Forward Voltage for Red/Yellow

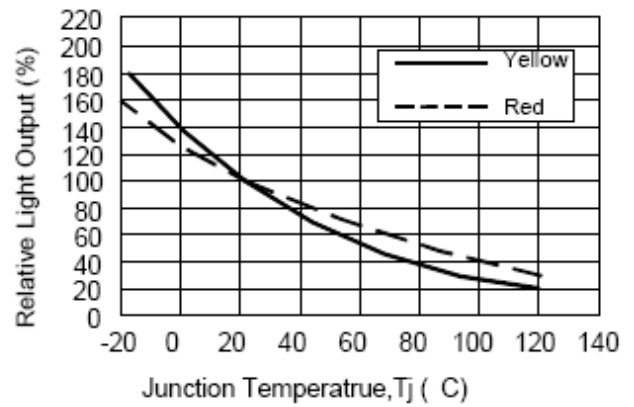
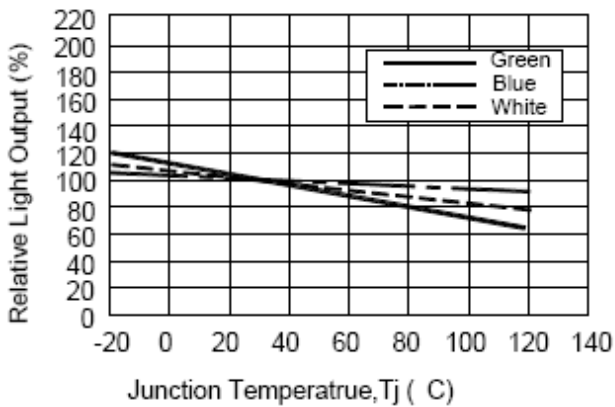
**Current Derating Curves**



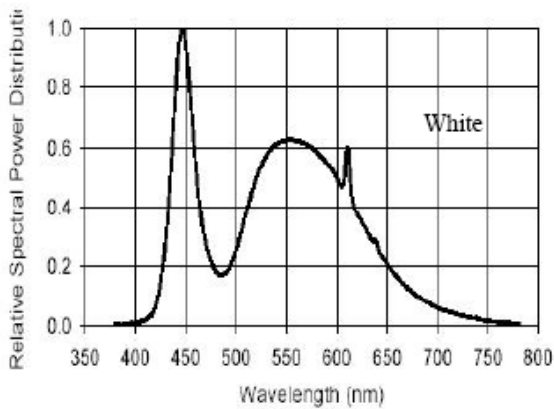
光通量保持率曲线图



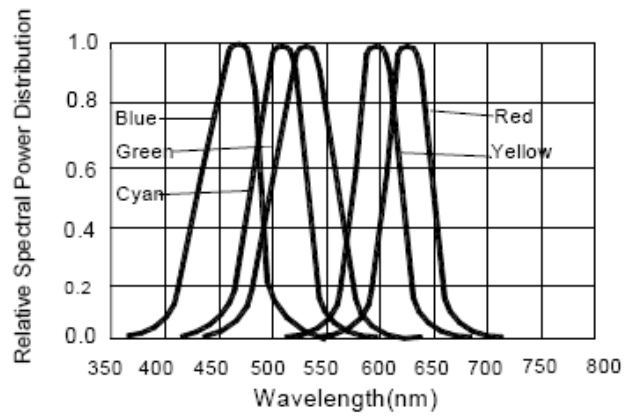
## Light Output Characteristics



## Wavelength Characteristics

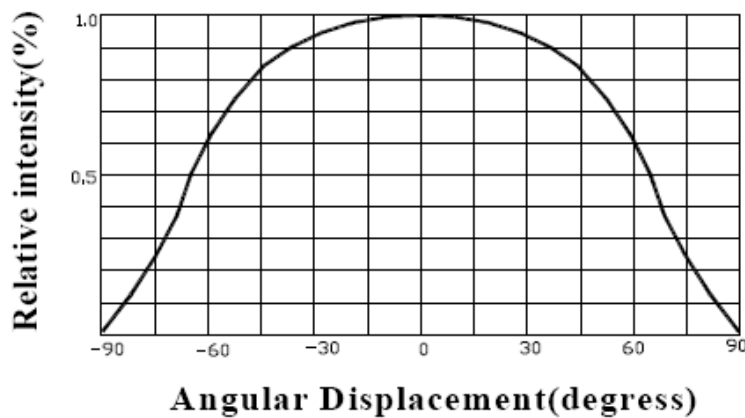


Relative Intensity vs Wavelength (nm)



Relative Intensity vs. Wavelength(nm)

## Typical Representative Spatial Radiation Pattern of single LED



## Features

Passed CE and ROHS

Conforming to International Standard

Absolutely safety and stable   Energy Saving   Low Voltage   High Brightness



### NOTE

- \* **Keep away form direct sunshine and high temperature**
  - \* **If any doubt consult a competent electrician.**
  - \* **Please read the specification first to make sure the using condition is fit.**
  - \* **We will meet our customer's specific requirement with our satisfied products.**
  - \* **The more details,Please visit our web site.**
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