



**中山市晶博光电科技有限公司**  
**ZHONGSHAN KINGHOOD OPTOELECTRONICS CO.,LTD.**

Device Number: JBDL-5R2-051

REV: 1.0

**5.0mm Round Type LED Lamps**

Model No.: **5R2C35RXXC**

ECN: \_\_\_\_\_

Page: 1/4

■ **Features :**

- High radiant intensity
- Choice of various viewing angles
- Reliable and robust

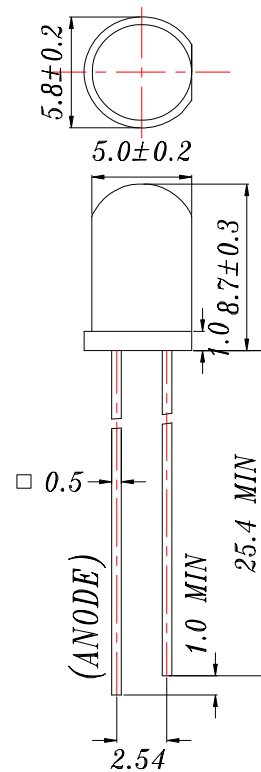
■ **Descriptions :**

- The series is specially designed for applications requiring higher brightness.
- The led lamps are available with different colors, intensities, epoxy colors, etc.

■ **Applications :**

- TV set
- Monitor
- Telephone
- Computer

■ **Package Dimensions:**



- Notes:**
1. All dimensions are in millimetres
  2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
  3. Tolerances unless Dimension  $\pm 0.25$ mm.

PART NO.	Chip		Lens Color
	Material	Emitted Color	
5R2C35RXXC	AlGaInP	Red	Water Clear

Address: Bld.8,Fuwan Industrial Zone,Eastern,Zhongshan,Guangdong,China

TEL : (+86 760) 86185231 86185232 86185233 86185201

FAX : (+86 760) 86185230

E-mail:Sales@kinghood.cc

Http://www.kinghood.cc

Prepared by: George

Prepared date: 09-6-16

906032



# 中山市晶博光电科技有限公司

ZHONGSHAN KINGHOOD OPTOELECTRONICS CO.,LTD.

Device Number: JBDL-5R2-051

REV: 1.0

5.0mm Round Type LED Lamps

Model No.: 5R2C35RXXC

ECN: \_\_\_\_\_

Page: 2/4

## ■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	I <sub>F</sub>	30	mA
Operating Temperature	T <sub>opr</sub>	-40 to +85	°C
Storage Temperature	T <sub>stg</sub>	-40 to +100	°C
Soldering Temperature	T <sub>sol</sub>	260 ± 5	°C
Power Dissipation	P <sub>d</sub>	100	mW
Peak Forward Current	I <sub>F</sub> (Peak)	180	mA
Reverse Voltage	V <sub>R</sub>	7	V

Note: \*1:IFP Conditions --Pulse Width ≤ 1msec and Duty ≤ 1/10.

\*2:Soldering time ≤ 5 seconds.

## Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA	1.9	2.0	2.4	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 7 V	/	/	2	μA
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> = 20 mA	3000	5000	/	mcd
Viewing Angle	2θ 1/2	I <sub>F</sub> = 20 mA	/	25	/	deg
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA	620	625	635	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> = 20 mA	618	622	630	nm
Spectrum Radiation Bandwidth	Δλ	I <sub>F</sub> = 20 mA	/	45	/	nm

BIN#	M15	M16	M17	M18
I <sub>v</sub> (mcd) @I <sub>F</sub> =20mA	2222-3111	3111-4356	4356-6098	6098-8538

Address: Bld.8,Fuwan Industrial Zone,Eastern,Zhongshan,Guangdong,China

TEL : (+86 760) 86185231 86185232 86185233 86185201

FAX : (+86 760) 86185230

E-mail:Sales@kinghood.cc

Http://www.kinghood.cc

Prepared by : George

Prepared date : 09-6-16

906032



# 中山市晶博光电科技有限公司

## ZHONGSHAN KINGHOOD OPTOELECTRONICS CO.,LTD.

Device Number: JBDL-5R2-051

REV: 1.0

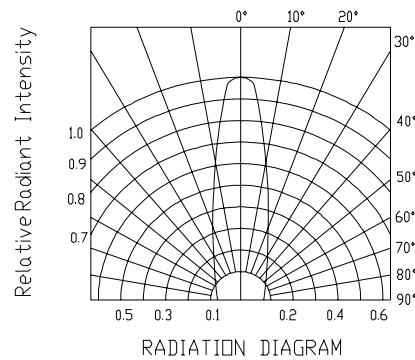
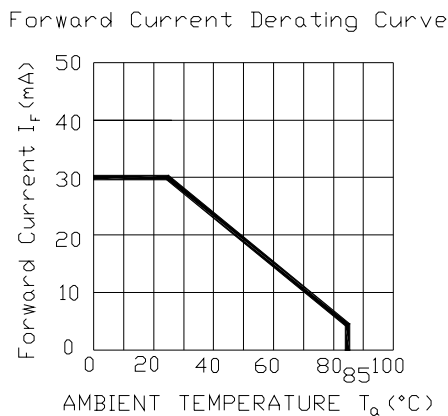
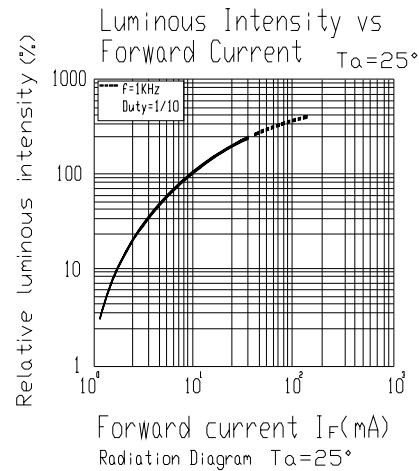
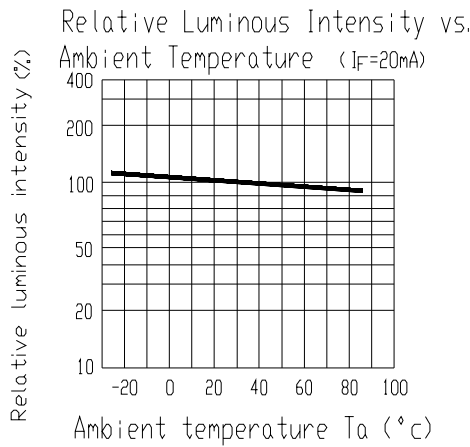
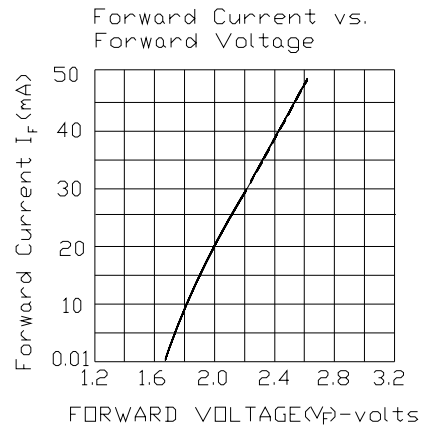
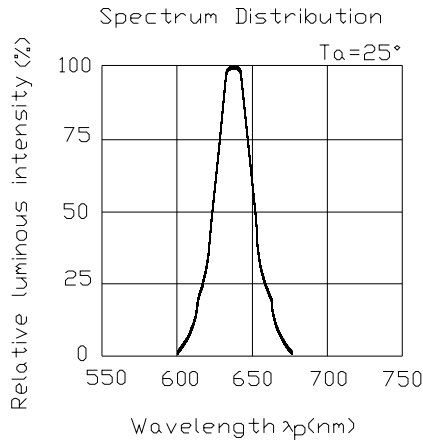
5.0mm Round Type LED Lamps

Model No.: 5R2C35RXXC

ECN: \_\_\_\_\_

Page: 3/4

### ■ Typical Electro-Optical Characteristic Curves:



Address: Bld.8,Fuwan Industrial Zone,Eastern,Zhongshan,Guangdong,China

TEL : (+86 760) 86185231 86185232 86185233 86185201

Prepared date : 09-6-16

FAX : (+86 760) 86185230

Prepared by : George

E-mail:Sales@kinghood.cc

Http://www.kinghood.cc

906032



中山市晶博光电科技有限公司  
ZHONGSHAN KINGHOOD OPTOELECTRONICS CO.,LTD.

Device Number: JBDL-5R2-051

REV: 1.0

5.0mm Round Type LED Lamps

Model No.: 5R2C35RXXC

ECN: \_\_\_\_\_

Page: 4/4

■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	10 SEC	76 PCS	0/1
2	Temperature Cycle	H : +100°C 15min ∩ 5 min L : -40°C 15min	300 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ∩ 10 sec L : -10°C 5min	300 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -40°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP : 25°C IF = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature/ High Humidity	85°C / 85% RH	1000 HRS	76 PCS	0/1

\*Iv: BRIGHTNESS ATTENUATE DIFFERENCE(1000hrs) < 10%

\*VF: FORWARD VOLTAGE DIFFERENCE < 3%

Address: Bld.8,Fuwan Industrial Zone,Eastern,Zhongshan,Guangdong,China

TEL : (+86 760) 86185231 86185232 86185233 86185201

FAX : (+86 760) 86185230

E-mail:Sales@kinghood.cc

Http://www.kinghood.cc

Prepared date : 09-6-16

Prepared by : George

906032