



# 中山市晶博光电科技有限公司

## ZHONGSHAN KINGHOOD OPTOELECTRONICS CO.,LTD.

Device Number: JBDL-3U1-004

REV: 1.0

### 3.0mm Very Wide Angle Type LED Lamps

Model No.: **3U5A44RXXC**

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

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#### ■ Features :

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

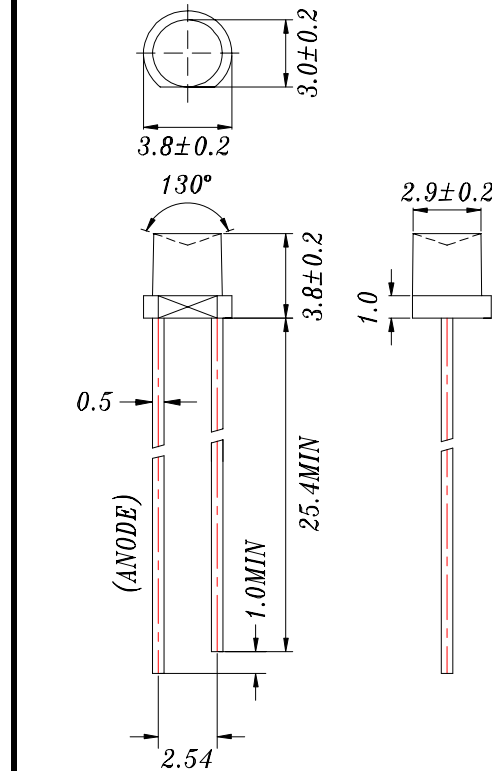
#### ■ Descriptions :

- 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	
3U5A44RXXC	AlGaInP	Red	Water Clear

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Prepared by: George

Prepared date: 09-7-26

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## ■ 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(peak)</sub>	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	2.2	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	25	/	400	mcd
Viewing Angle	2θ 1/2	I <sub>F</sub> = 20 mA	/	150	/	deg
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA	620	630	640	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> = 20 mA	618	625	630	nm
Spectrum Radiation Bandwidth	Δλ	I <sub>F</sub> = 20 mA	/	45	/	nm

BIN#	M1	M2	M3	M4
I <sub>v</sub> (mcd) @I <sub>F</sub> =20mA	20-28	28-39	39-55	55-77
BIN#	M5	M6	M7	M8
I <sub>v</sub> (mcd) @I <sub>F</sub> =20mA	77-108	108-151	151-211	211-295

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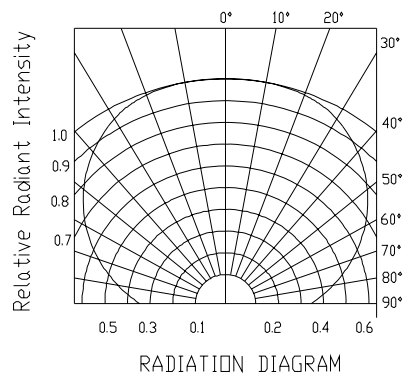
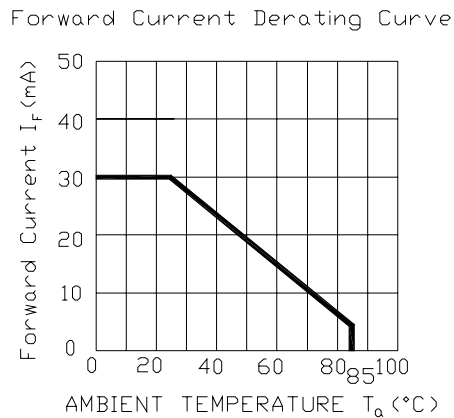
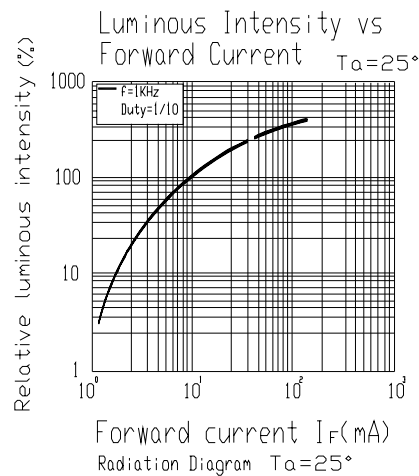
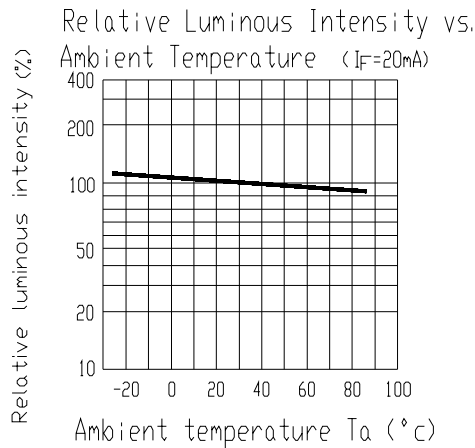
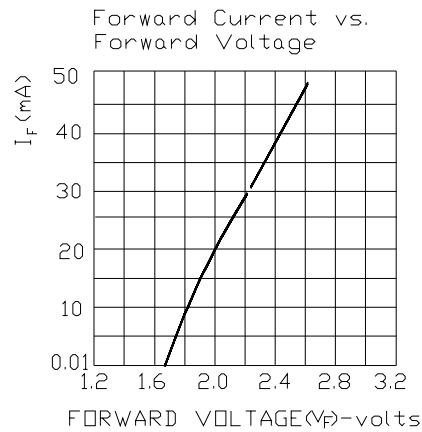
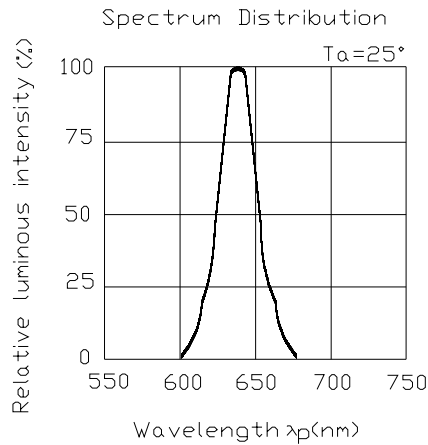
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### ■ Typical Electro-Optical Characteristic Curves:



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■ 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%

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