



中山市晶博光电科技有限公司

ZHONGSHAN KINGHOOD OPTOELECTRONICS CO.,LTD.

Device Number: JBDL-4E2-009

REV: 1.0

3.2*3.9mm Elliptical Wide Angle LED Lamps

Model No.: 346A2CGXXD1

ECN: _____

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■ Features :

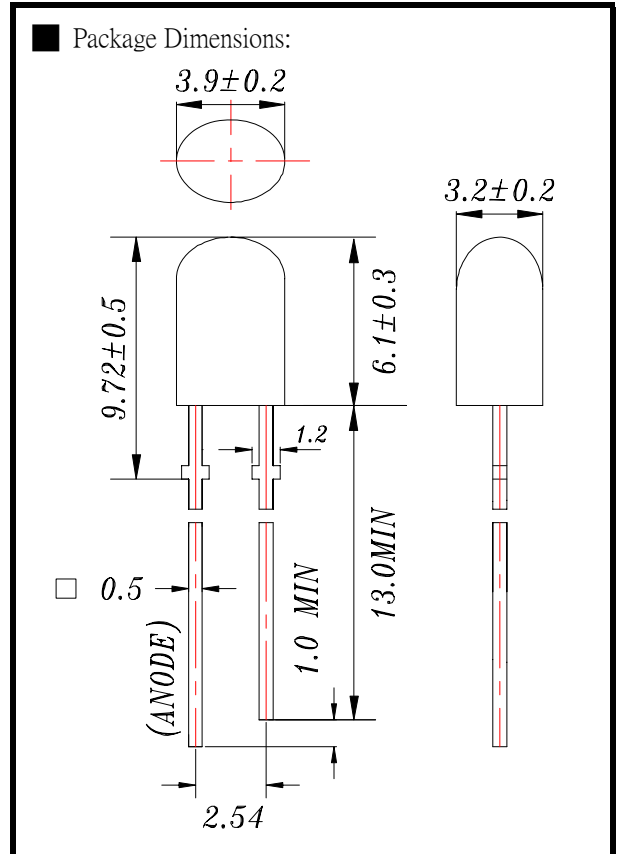
- High radiant intensity
- Choice of various viewing angles
- Reliable and robust

■ 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



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

PART NO.	Chip		Lens Color
	Material	Emitted Color	
346A2CGXXD1	GaP	Green	Tinted Diffused

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

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Prepared by: George

Prepared date: 09-6-13

906018



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■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	I _F	30	mA
Operating Temperature	T _{opr}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +100	°C
Soldering Temperature	T _{sol}	260 ± 5	°C
Power Dissipation	P _d	120	mW
Peak Forward Current	I _{F(peak)}	100	mA
Reverse Voltage	V _R	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 _F	I _F = 20 mA	3.0	3.2	3.4	V
Reverse Current	I _R	V _R = 7 V	/	/	2	μA
Luminous Intensity	I _v	I _F = 20 mA	1280	2000	/	mcd
Viewing Angle	2θ 1/2	I _F = 20 mA	/	105/50	/	deg
Peak Wavelength	λ _p	I _F = 20 mA	515	518	530	nm
Dominant Wavelength	λ _d	I _F = 20 mA	517	522	533	nm
Spectrum Radiation Bandwidth	Δλ	I _F = 20 mA	/	35	/	nm

BIN#	N23	N24	N25	N26
I _v (mcd) @I _F =20mA	1104-1325	1325-1590	1590-1908	1908-2290
BIN#	N27	N28	N29	
I _v (mcd) @I _F =20mA	2290-2747	2747-3297	3297-3956	

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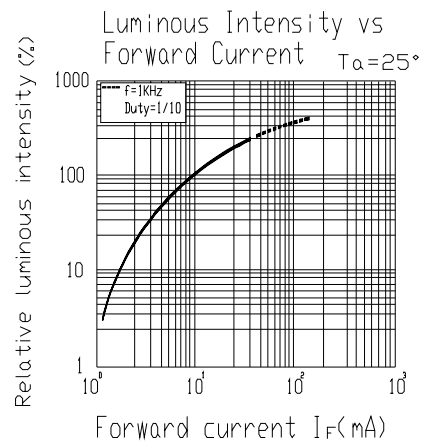
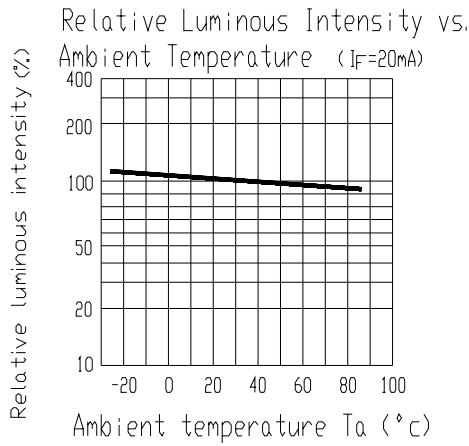
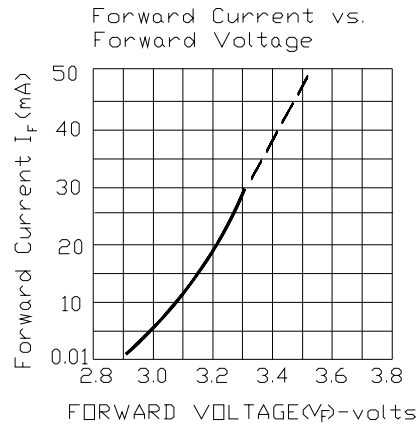
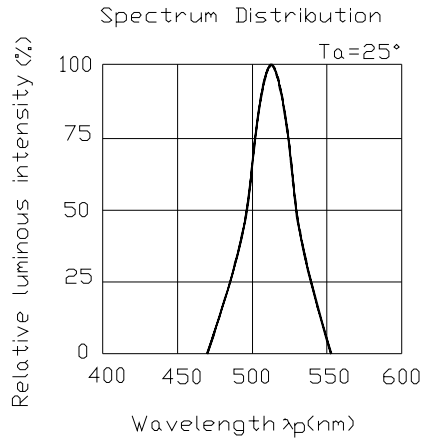
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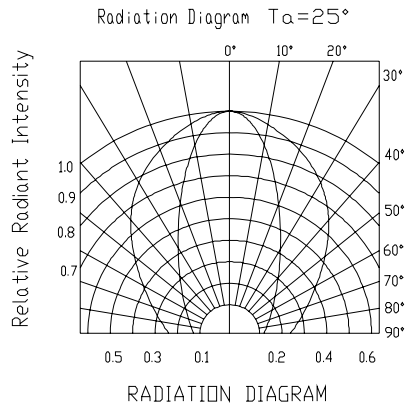
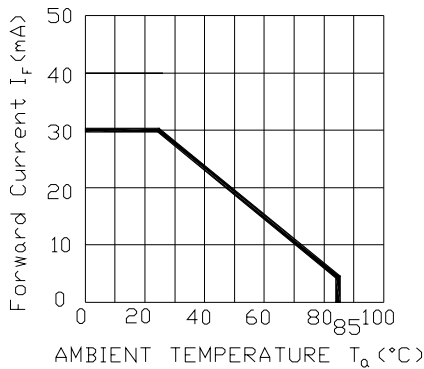
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Typical Electro-Optical Characteristic Curves:



Forward Current Derating Curve



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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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