EVERLIGHT ELECTRONICS CO.,LTD.

DATA SHEET

PART NO. : A214B/G

DATE : 2005/8/26

DEPARTMENT : CHR&D1

REVISION : 4

RECEIVED

■ MASS PRODUCTION

□ PRELIMINARY

□ CUSTOMER DESIGN

DEVICE NUMBER : CDAE-021-009

PAGE : 6

CUSTOMER	DESIGNER	CHECKER	APPROVER

REV.	DESCRIPTION	RELEASE DATE

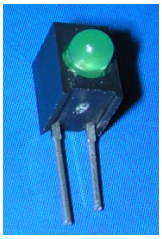
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EVERLIGHT ELECTRONICS CO.,LTD.

Technical Data Sheet

3.0mm Round Type LED Lamps

A214B/G



■ Features :

- Low power consumption
- High efficiency and low cost
- Good control and free combinations on the colors of LED lamps
- Good lock and easy to assembly
- Stackable and easy to assembly
  Stackable vertically and easy to assembly
- Versatile mounting on P.C board or panel
- Stackable horizontally and easy to assembly
- Pb free
- The product itself will remain within RoHS compliant version

■ Descriptions :

- ARRAY=Plastic Holder+Combinations of Lamps
- The array will easily mount the applicable lamps on any panel up to

■ Applications :

- 1.Used as indicators of indicating the Degree, Functions, Positions etc, in electronic instruments.

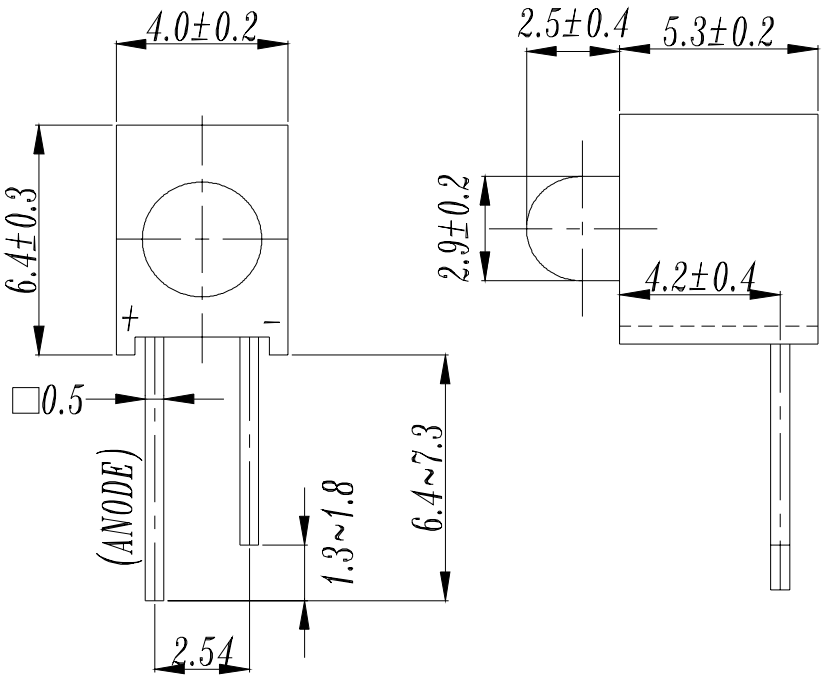
PART NO.	Chip		Lens Color
	Material	Emitted Color	
264-10GD	GaP	Green	Green Diffused

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Package Dimensions



Notes: 1.All dimensions are in millimeters, tolerance is 0.25mm except being specified

2.Lead spacing is measured where the lead emerge from the package

The product itself will remain within RoHS compliant version

■ Absolute Maximum Ratings at Ta = 25℃

Parameter	Symbol	Rating	Unit
Forward Current	IF	25	mA
Operating Temperature	Topr	-40 to +85	℃
Storage Temperature	Tstg	-40 to +100	℃
Soldering Temperature	Tsol	260 ± 5	℃
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW
Reverse Voltage	VR	5	V

Note: *1:Soldering time ≦ 5 seconds.

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A214B/G

Electro-Optical Characteristics(Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F= 20 mA	1.7	2.1	2.4	V
Reverse Current	I_R	V_R= 5 V	／	／	10	μA
Luminous Intensity	Iv	I_F= 10 mA	5	10	／	mcd
Viewing Angle	2θ1/2	I_F= 20 mA	／	60	／	deg
Peak Wavelength	λp	I_F= 20 mA	／	565	／	nm
Dominant Wavelength	λd	I_F= 20 mA	／	570	／	nm
Spectrum Radiation Bandwidth	△λ	I_F= 20 mA	／	30	／	nm

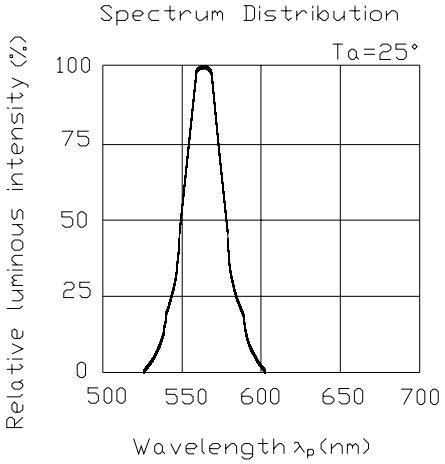
Technical Data Sheet

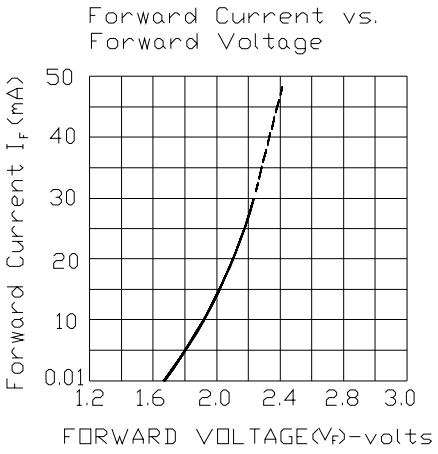
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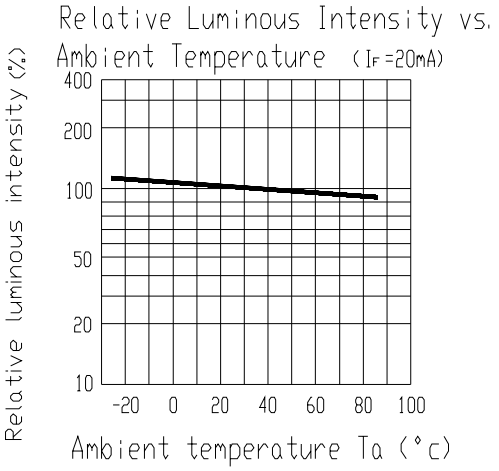
A214B/G

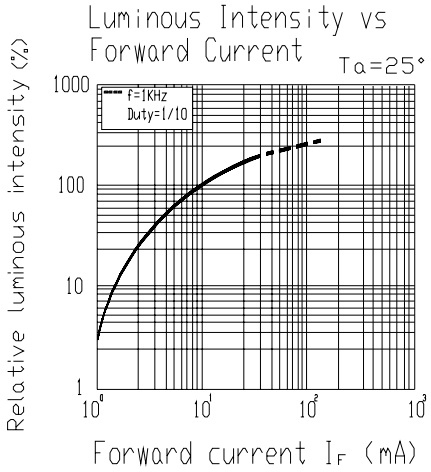
■ Typical Electro-Optical Characteristic Curves:

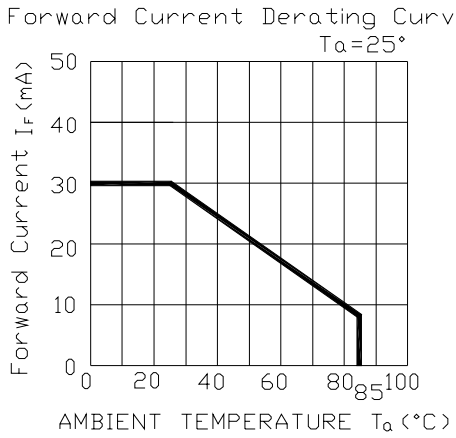
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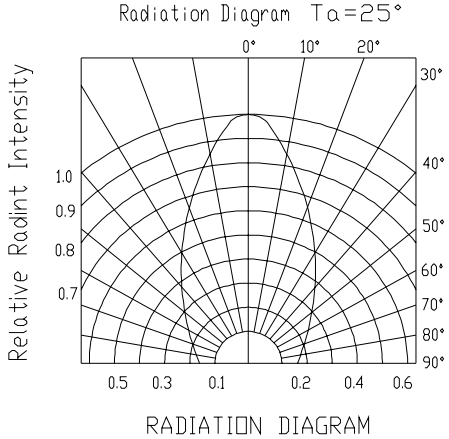












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■ Reliability test items and conditions:

The reliability of products shall be satisfied with items listed below.

Confidence level：97%

LTPD：3%

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Failure Judgment Criteria	Ac/Re
1	Solder Heat	TEMP : 260℃ ± 5 ℃	10 SEC	76 PCS	Iv≦Ivt*0.5 or Vf≧U or Vf≦L	0/1
2	Temperature Cycle	H : +100℃ 15min ∫ 5 min L : -40℃ 15min	300 CYCLES	76 PCS		0/1
3	Thermal Shock	H : +100℃ 5min ∫ 10 sec L : -10℃ 5min	300 CYCLES	76 PCS		0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 PCS		0/1
5	Low Temperature Storage	TEMP : -40℃	1000 HRS	76 PCS		0/1
6	DC Operating Life	TEMP : 25℃ IF = 20mA	1000 HRS	76 PCS		0/1
nain with	High Temperature / High Humidity	85℃ / 85% RH	1000 HRS	76 PCS		0/1

Note： Ivt：To test Iv value of the chip before the reliablility test

Iv：The test value of the chip that has completed the reliablility test

U：Upper Specification Limit

L： Lower Specification Limit

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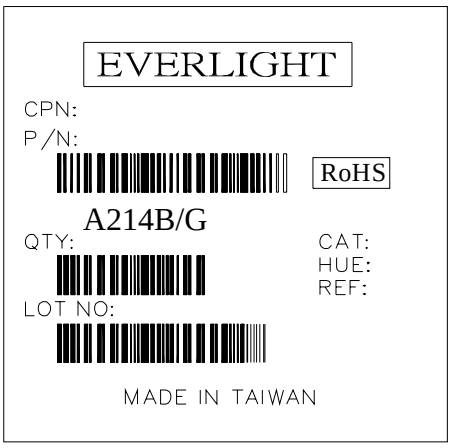
A214B/G

Packing Quantity Specification

1500PCS/1Bag，4Bags/1Box

2. 10Boxes/1Carton

Label Form Specification



CPN: Customer’ s Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE:Dominant Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

Notes

1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.

The product itself will remain within RoHS compliant version

for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.

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