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EVERLIGHT ELECTRONICS CO.,LTD.

# DATA SHEET

PART NO. : 3294-15UBGC/S400-A6

DATE : 2005/8/8

DEPARTMENT : CHR&D1

REVISION : 2

## RECEIVED

■ MASS PRODUCTION
□ PRELIMINARY
□ CUSTOMER DESIGN

DEVICE NUMBER : 0

PAGE : 6

| CUSTOMER | DESIGNER | CHECKER | APPROVER |
|---|---|---|---|
| | | | |

| REV. | DESCRIPTION | RELEASE DATE |
|---|---|---|
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# Technical Data Sheet
# 3.0mm Round Type LED Lamps

## 3294-15UBGC/S400-A6

## ■ Features :

- Choice of various viewing angles
- Available on tape and reel.
- Reliable and robust
- Pb free

## ■ Descriptions :

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

## ■ Applications :

- TV set
- Monitor
- Telephone
- Computer

| PART NO. | Material | Emitted Color | Lens Color |
|---|---|---|---|
| 3294-15UBGC/S400-A6 | InGaN/SiC | Super Blue | Water Clear |

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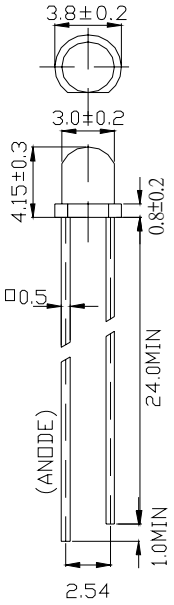
# Technical Data Sheet
# 3.0mm Round Type LED Lamps

## 3294-15UBGC/S400-A6

**Package Dimensions**




**Notes:** 1.All dimensions are in millimetres

2. The height of flange must be less than 1.5mm(0.059").

3. Without special declared,the tolerance is ±0.25mm.

## ■ Absolute Maximum Ratings at Ta = 25℃

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Forward Current | $I_F$ | 25 | mA |
| Operating Temperature | Topr | -40 to +85 | ℃ |
| Storage Temperature | Tstg | -40 to +100 | ℃ |
| Electrostatic Discharge | ESD | 1000 | V |
| Soldering Temperature | Tsol | 260 ± 5 | ℃ |
| Power Dissipation | Pd | 120 | mW |
| Peak Forward Current | $I_F$(Peak) | 100 | mA |
| Reverse Voltage | $V_R$ | 5 | V |

Note: *1:$I_{FP}$ Conditions --Pulse Width ≦ 1msec and Duty ≦ 1/10.

*2:Soldering time ≦ 5 seconds.

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# Technical Data Sheet
# 3.0mm Round Type LED Lamps

## 3294-15UBGC/S400-A6

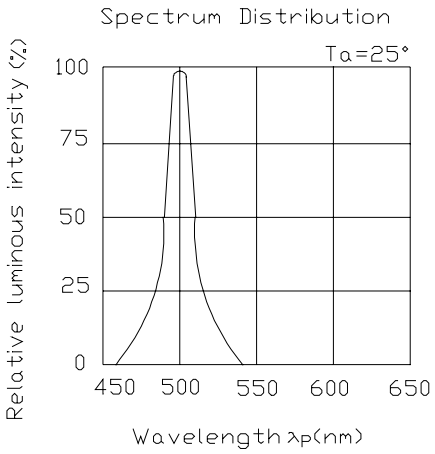
### Electro-Optical Characteristics (Ta=25℃)

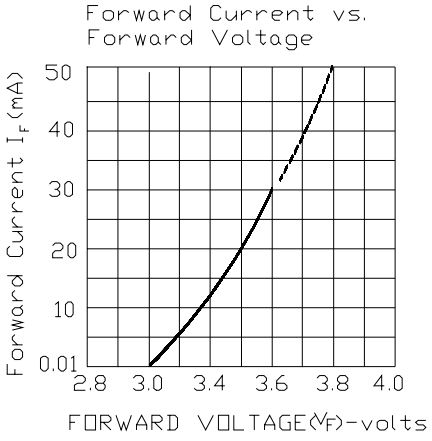
| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Forward Voltage | $V_F$ | IF= 20 mA | ／ | 3.5 | 4.3 | V |
| Reverse Current | $I_R$ | $V_R$= 5 V | ／ | ／ | 50 | μA |
| Luminous Intensity | Iv | IF= 20 mA | 800 | 1250 | ／ | mcd |
| Viewing Angle | 2θ1/2 | IF= 20 mA | ／ | 45 | ／ | deg |
| Peak Wavelength | λp | IF= 20 mA | ／ | 502 | ／ | nm |
| Dominant Wavelength | λd | IF= 20 mA | ／ | 505 | ／ | nm |
| Spectrum Radiation Bandwidth | △λ | IF= 20 mA | ／ | 30 | ／ | nm |

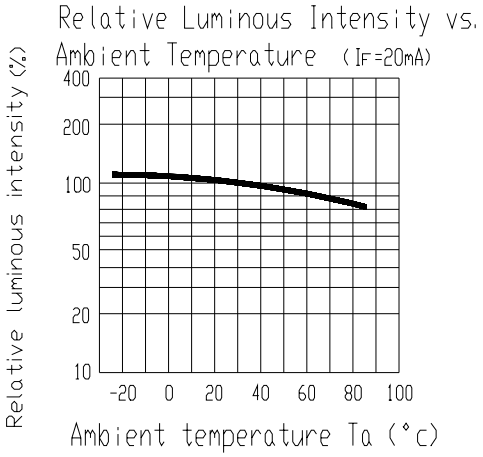
**3294-15UBGC/S400-A6**

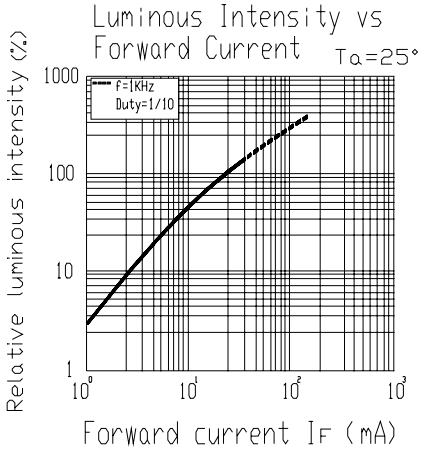
## ■ Typical Electro-Optical Characteristic Curves:

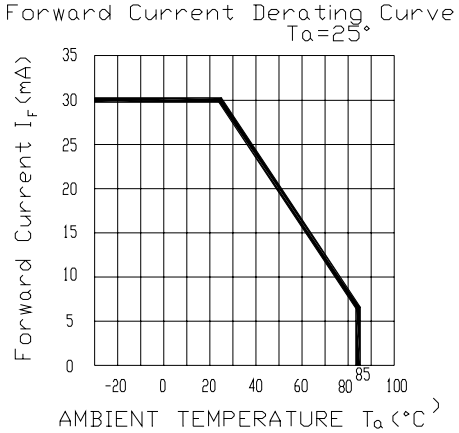
(UBG)

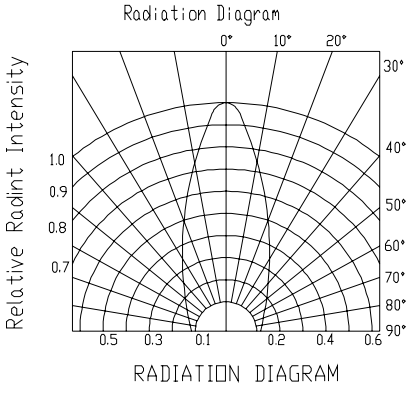


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Technical Data Sheet

3.0mm Round Type LED Lamps

**3294-15UBGC/S400-A6**

## ■ Reliability test items and conditions:

| NO | Item | Test Conditions | Test Hours/Cycle | Sample size | Ac/Re |
|---|---|---|---|---|---|
| 1 | Solder Heat | TEMP : 260℃ ± 5 ℃ | 10 SEC | 76 PCS | 0/1 |
| 2 | Temperature Cycle | H : +100℃ 15min<br>∫ 5 min<br>L : -40℃ 15min | 300 CYCLES | 76 PCS | 0/1 |
| 3 | Thermal Shock | H : +100℃ 5min<br>∫ 10 sec<br>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℃<br>$I_F$ = 20mA | 1000 HRS | 76 PCS | 0/1 |
| 7 | High Temperature / High Humidity | 85℃ / 85% RH | 1000 HRS | 76 PCS | 0/1 |

Technical Data Sheet

# 3.0mm Round Type LED Lamps

## 3294-15UBGC/S400-A6

### Packing Quantity Specification

1.1000PCS/1Bag，4Bags/1Box

2.10Boxes/1Carton

### Label Form Specification

CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Peak 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.
2. When using this product, please observe the absolute maximum ratings and the instructions 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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