



Technical Data Sheet

5.0mm Round Type LED Lamps

EV333UBC

■ **Features:**

- Choice of various viewing angles
- Available on tape and reel
- Reliable and robust
- Pb free
- The product itself will remain within ROHS compliant version

■ **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

TART NO.	Material	Emitted Color	Lens Color
EV333UBC	InGAN	Super Blue	Water Clear

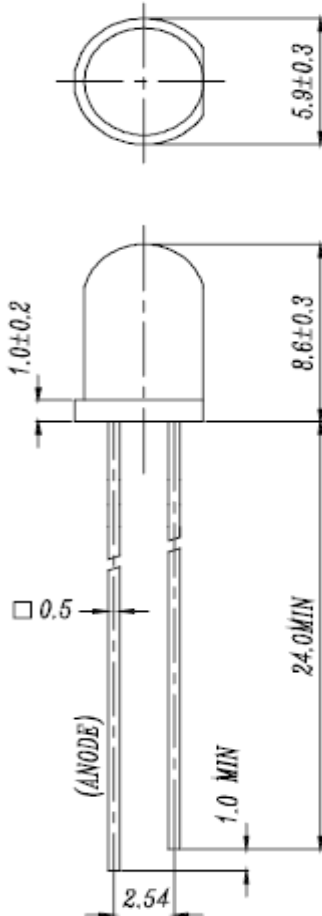


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Package Dimensions



- Notes: 1. All dimensions are in millimeters
 2. The height of flange must be less than 1.5mm (0.599").
 3. Without special declared, the tolerance is ± 0.25 mm.

■ Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Forward	IF	25	mA
Operating Temperature	Topr	-40 to +85	$^\circ\text{C}$
Storage Temperature	Tstg	-40 to +85	$^\circ\text{C}$
Electrostatic Discharge	ESD	2000	V
Soldering Temperature	Pd	100	mW
Reverse Voltage	V_R	5	V



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Electro-Optical characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=20mA	---	3.0	4.0	V
Reverse Current	IR	VR=5V	---	---	10	uA
Luminous Intensity	Iv	IF=20mA	---	9000	---	Mcd
Viewing Angle	2Θ1/2	IF=20mA	---	15	---	Deg
Peak Wavelength	λd	IF=20mA	465	---	475	nm
Spectrum Radiation Bandwidth	Δλ	IF=20mA	---	30	---	nm

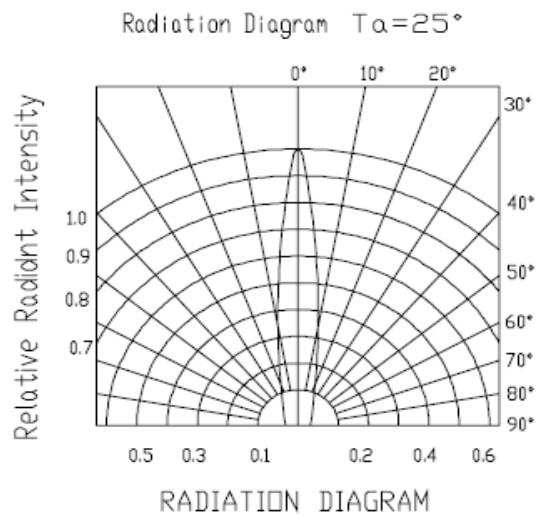
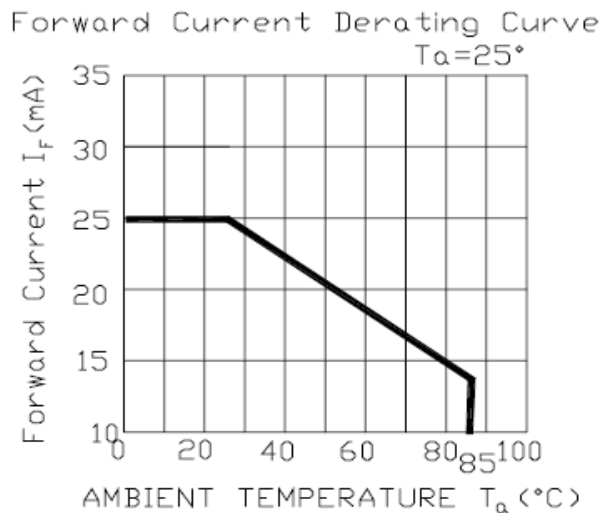
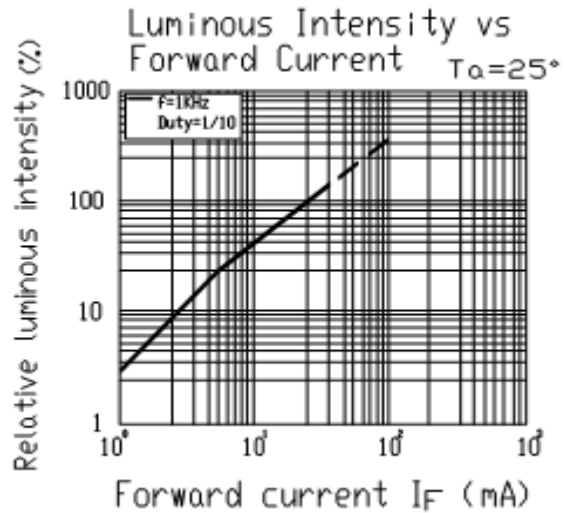
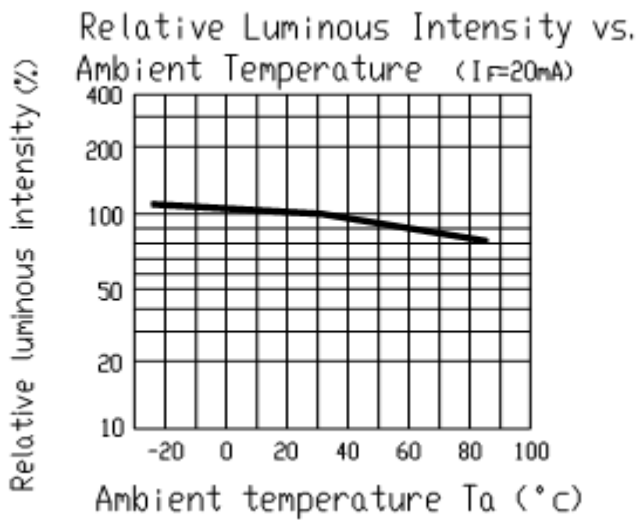
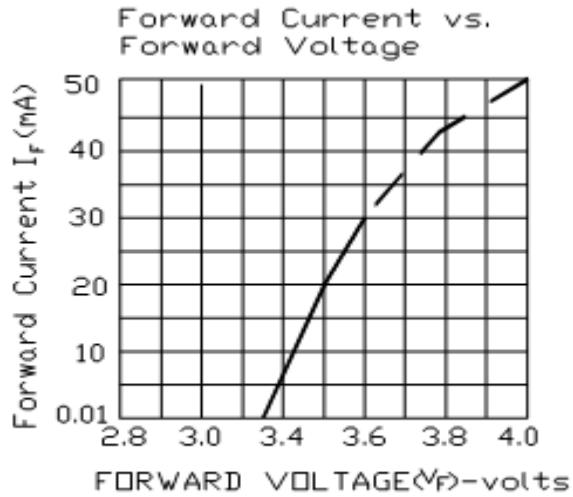
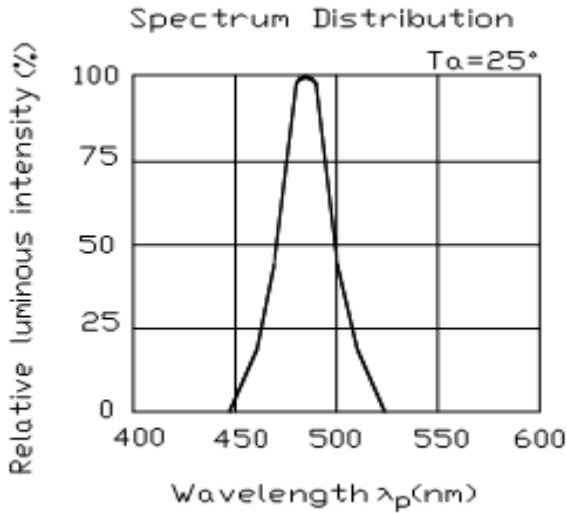


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CHARACTERISTIC CURVES:





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■ Reliability tes items and conditions:

Thereliability of products shall be satisfied with items listed below.

Confidence level:97%

LTPD:3%

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

Note: Ivt:To test Iv value of the chip before the reliability tes

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

U:Upper Specification Limit

L:Lower Specification Limit



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Packing Quantity Specification

1.1000PCS/1Bag,10Bags/1Box

2.4Boxes/1Carton

Label Form Specification



EVE

CPN:

RoHS

P/N:XXXXXXXXXXXXX



XXXXXXXX

CAT:

HUE:

QTY: XXX

REF:



LOT NO:XXXXXXXXXXXXX



Notes:

1. Above specification may be changed without notice. **GUANGBAO** 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. **GUANGBAO** 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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