



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Technical Data Sheet

## 5.0mm Round Type LED Lamps

### 333-2SUGC/H3/S400-X6

#### ■ 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
333-2SUGC/H3/S400-X6	InGaN	Super Green	Water Clear

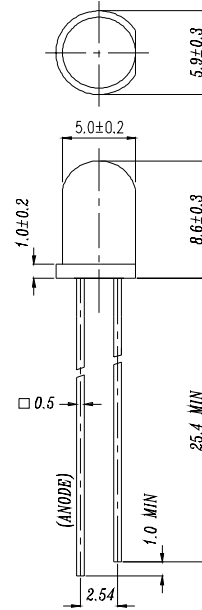


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### 333-2SUGC/H3/S400-X6

#### 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  $\pm 0.25$ mm.

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

Parameter	Symbol	Rating	Unit
Forward Current	$I_F$	25	mA
Operating Temperature	$T_{opr}$	-40 to +85	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to +100	$^\circ\text{C}$
Soldering Temperature	$T_{sol}$	$260 \pm 5$	$^\circ\text{C}$
Electrostatic Discharge	ESD	150	V
Power Dissipation	$P_d$	110	mW
Reverse Voltage	$V_R$	5	V

Note: \*1:Soldering time  $\leq 5$  seconds.



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**Electro-Optical Characteristics (Ta=25°C)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	$I_F = 20 \text{ mA}$	/	3.4	4.0	V
Reverse Current	IR	$V_R = 5 \text{ V}$	/	/	50	$\mu\text{A}$
Luminous Intensity	Iv	$I_F = 20 \text{ mA}$	8000	11000	/	mcd
Viewing Angle	$2\theta_{1/2}$	$I_F = 20 \text{ mA}$	/	20	/	deg
Peak Wavelength	$\lambda_p$	$I_F = 20 \text{ mA}$	/	525	/	nm
Dominant Wavelength	$\lambda_d$	$I_F = 20 \text{ mA}$	/	530	/	nm
Spectrum Radiation Bandwidth	$\Delta\lambda$	$I_F = 20 \text{ mA}$	/	35	/	nm

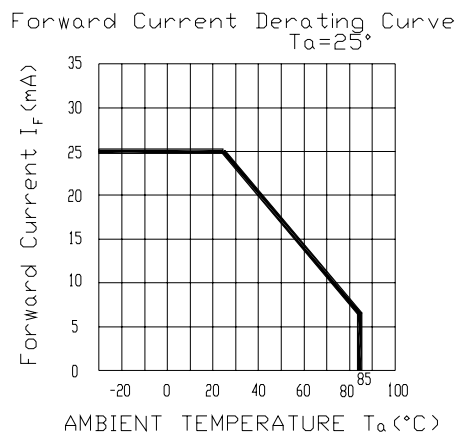
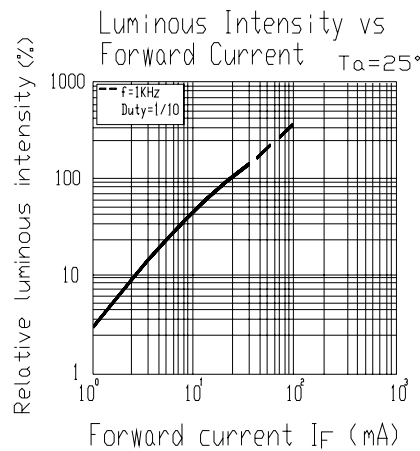
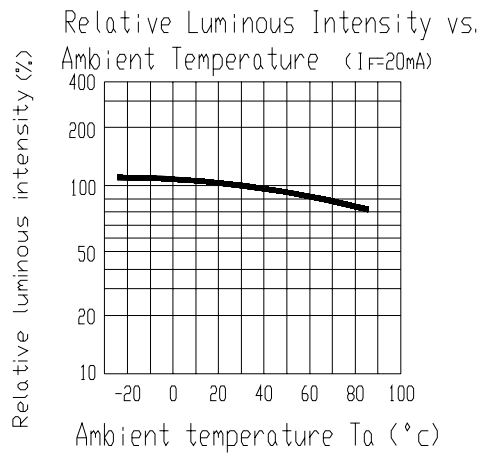
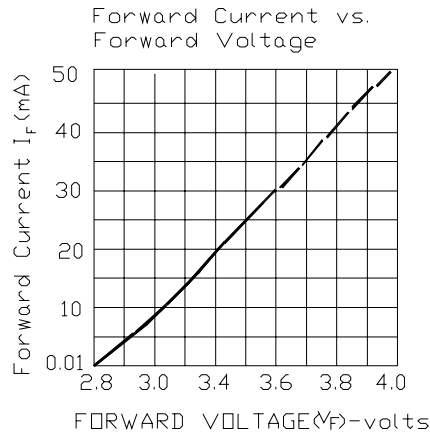
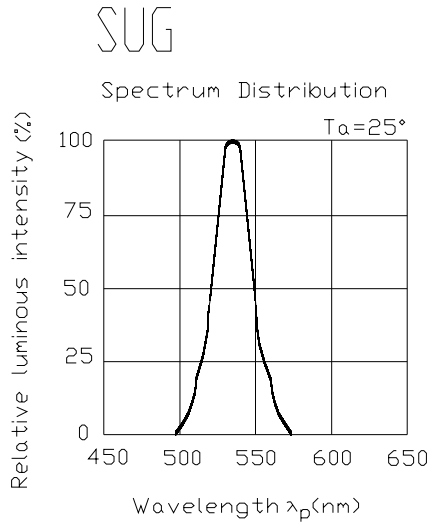


# Technical Data Sheet

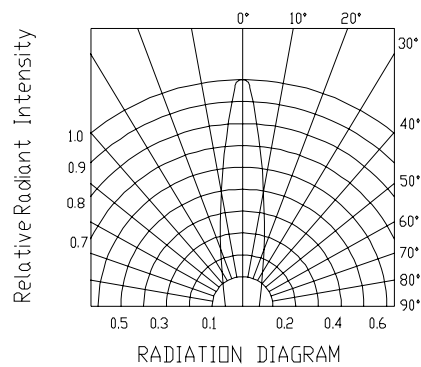
## 5.0mm Round Type LED Lamps

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### Typical Electro-Optical Characteristic Curves:



Radiation Diagram  $T_a=25^\circ C$





# Technical Data Sheet

## 5.0mm Round Type LED Lamps

**333-2SUGC/H3/S400-X6**

### ■ 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°C ± 5 °C	10 SEC	76 PCS	Iv ≤ Ivt*0.5 or Vf ≥ U or Vf ≤ L	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

Note : Ivt : To test Iv value of the chip before the reliability test  
Iv : The test value of the chip that has completed the reliability test  
U : Upper Specification Limit  
L : Lower Specification Limit



## Technical Data Sheet

### 5.0mm Round Type LED Lamps

**333-2SUGC/H3/S400-X6**

#### Packing Quantity Specification

1.500PCS/1Bag , 4Bags/1Box

2.10Boxes/1Carton

#### Label Form Specification

EVERLIGHT

CPN: Customer's Production Number

CPN:

P/N:



QTY: Packing Quantity

CAT: Ranks

HUE: Peak Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

333-2SUGC/H3/S400-X6

QTY: CAT:  
HUE: REF:



LOT NO: EL



MADE IN TAIWAN

#### 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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