EVERLIGHT

Technical Data Sheet
5.0mm Round Type LED Lamps

333-2SURC/H3/S400-A8

■ 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

PART NO.	Material	Emitted Color	Lens Color
333-2SURC/H3/S400-A8	AlGaInP	Hyper Red	Water Clear

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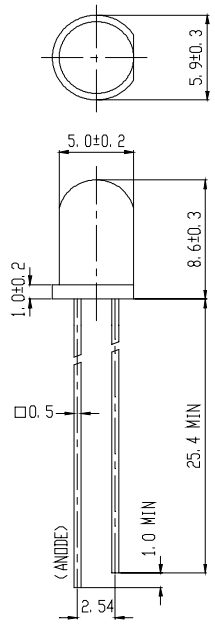
Package Dimensions



Notes: 1.All dimensions are in millimetres

2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.

3. Tolerances unless Dimension ±0.25mm.

■ Absolute Maximum Ratings at Ta = 25℃

Parameter	Symbol	Rating	Unit
Forward Current	I_F	50	mA
Operating Temperature	Topr	-40 to +85	℃
Storage Temperature	Tstg	-40 to +100	℃
Electrostatic Discharge	ESD	2000	V
Soldering Temperature	Tsol	260 ± 5	℃
Power Dissipation	Pd	120	mW
Reverse Voltage	V_R	5	V

Note: *1:Soldering time ≦ 5 seconds.

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Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	I_F= 20 mA	／	2.0	2.4	V
Reverse Current	IR	V_R= 5 V	／	／	10	μA
Luminous Intensity	Iv	I_F= 20 mA	2500	4000	／	mcd
Viewing Angle	2θ1/2	I_F= 20 mA	／	15	／	deg
Peak Wavelength	λp	I_F= 20 mA	／	632	／	nm
Dominant Wavelength	λd	I_F= 20 mA	／	624	／	nm
Spectrum Radiation Bandwidth	△λ	I_F= 20 mA	／	20	／	nm

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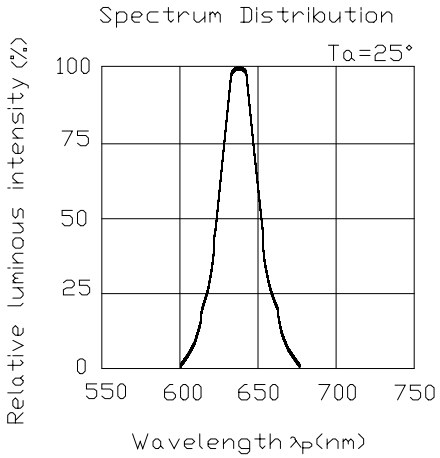
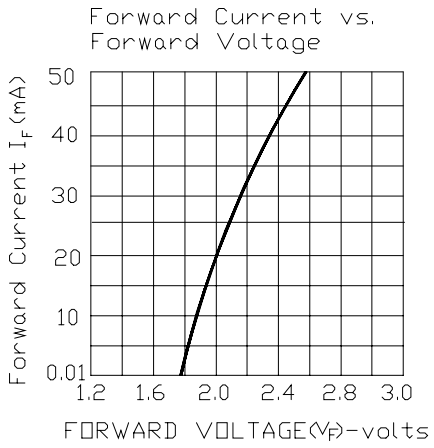
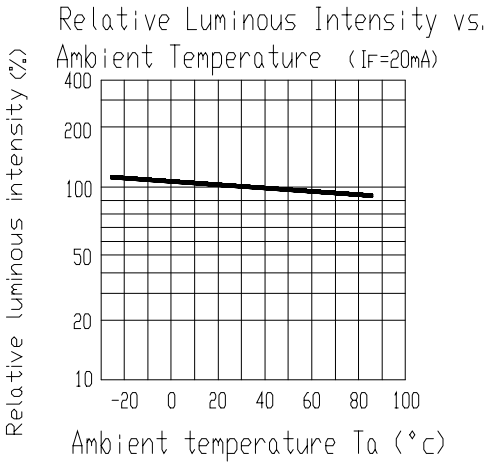
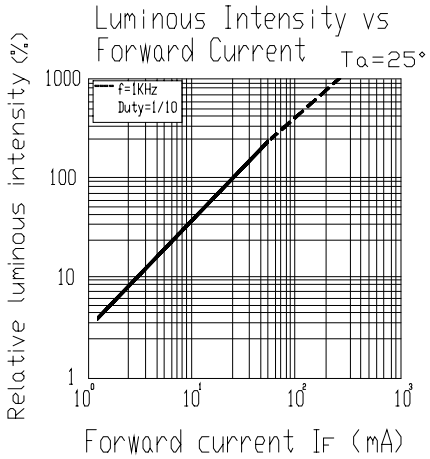
■ Typical Electro-Optical Characteristic Curves:

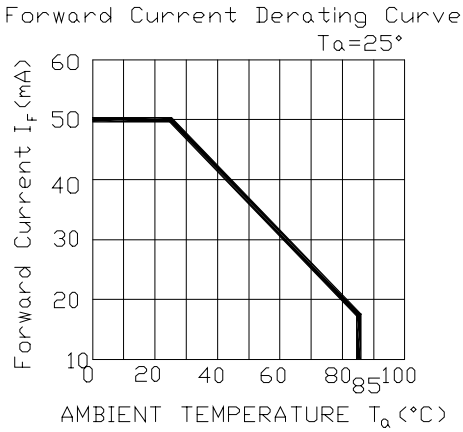
(SUR)

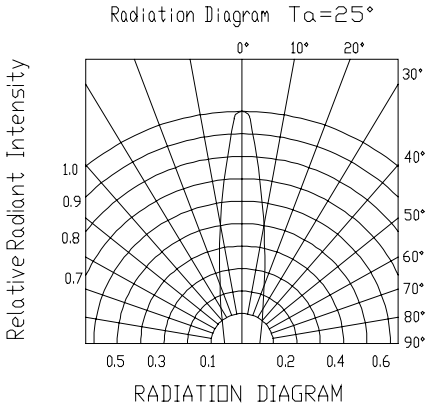












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■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample size	Ac/Re
1	Solder Heat	TEMP : 260℃ ± 5 ℃	10 SEC	76 PCS	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
7	High Temperature / High Humidity	85℃ / 85% RH	1000 HRS	76 PCS	0/1

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Packing Quantity Specification

1.500PCS/1Bag，5Bags/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.
3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's consent.

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