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EVERLIGHT

EVERLIGHT ELECTRONICS CO.,LTD.

DATA SHEET

PART NO. : A1643B/SUR/S530-A3

DATE : 2005/8/26

DEPARTMENT : CHR&D1

REVISION : 2

RECEIVED

■ MASS PRODUCTION
□ PRELIMINARY
□ CUSTOMER DESIGN
DEVICE NUMBER : CDAE-164-014
PAGE : 6

CUSTOMER	DESIGNER	CHECKER	APPROVER

REV.	DESCRIPTION	RELEASE DATE

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EVERLIGHT ELECTRONICS CO.,LTD.

Technical Data Sheet

4.7mm Round Type LED Lamps

A1643B/SUR/S530-A3

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 :

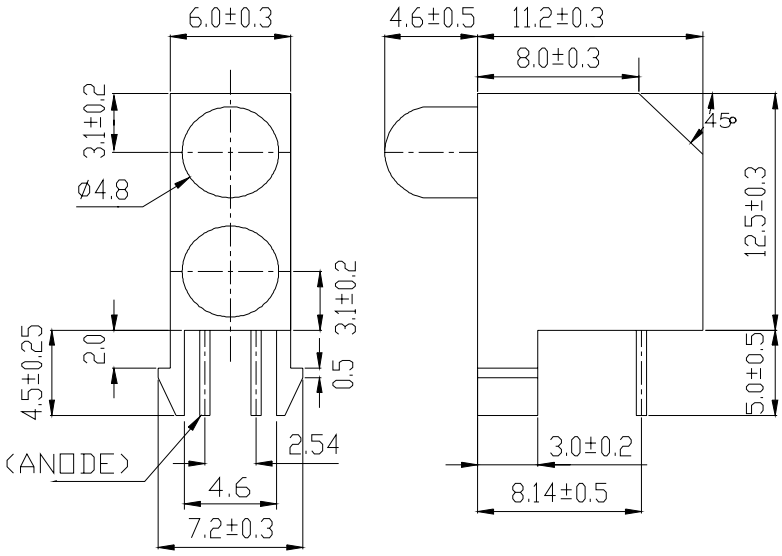
- 1.Used as indicators of indicating the Degree, Functions, Positions etc, in electronic instruments.

PART NO.	Chip		Lens Color
	Material	Emitted Color	
313-2SURD/S530-A3	AlGaInP	Hyper Red	Red Diffused

Technical Data Sheet
4.7mm Round Type LED Lamps

A1643B/SUR/S530-A3

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

■ 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	℃
Soldering Temperature	Tsol	260 ± 5	℃
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW
Peak Forward Current	I_F(Peak)	160	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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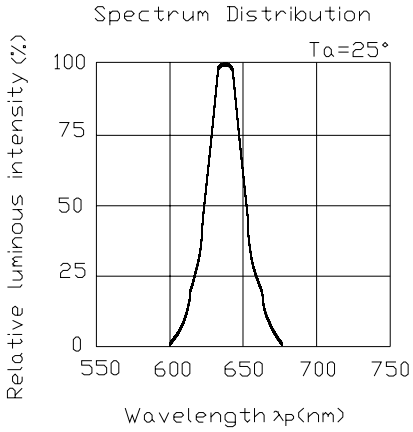
Electro-Optical Characteristics (Ta=25℃)

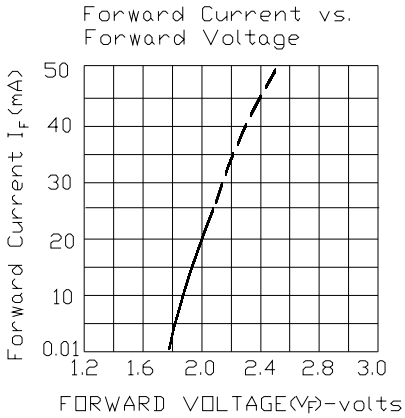
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F= 20 mA	／	2.0	2.4	V
Reverse Current	I_R	V_R= 5 V	／	／	10	μA
Luminous Intensity	Iv	I_F= 20 mA	40	100	／	mcd
Viewing Angle	2θ1/2	I_F= 20 mA	／	40	／	deg
Peak Wavelength	λp	I_F= 20 mA	／	632	／	nm
Dominant Wavelength	λd	I_F= 20 mA	／	624	／	nm
Spectrum Radiation Bandwidth	△λ	I_F= 20 mA	／	20	／	nm

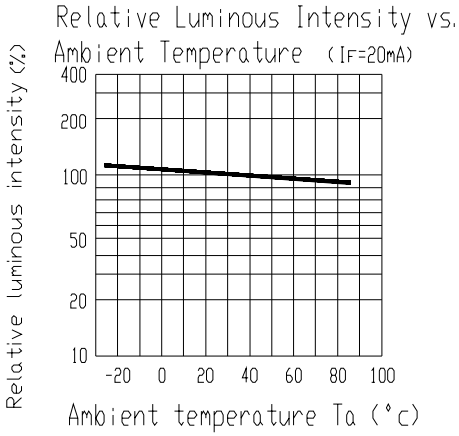
A1643B/SUR/S530-A3

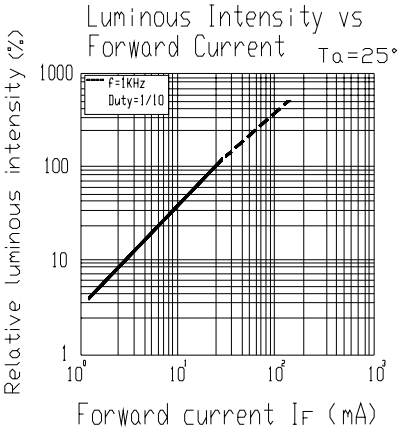
■ Typical Electro-Optical Characteristic Curves:

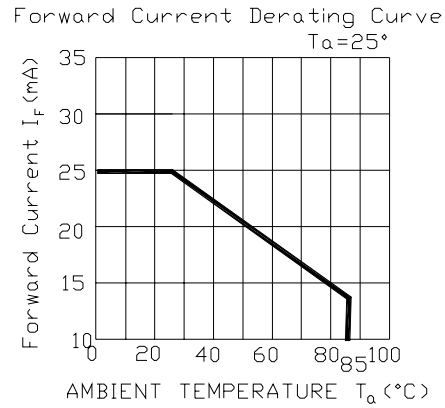
(SUR)

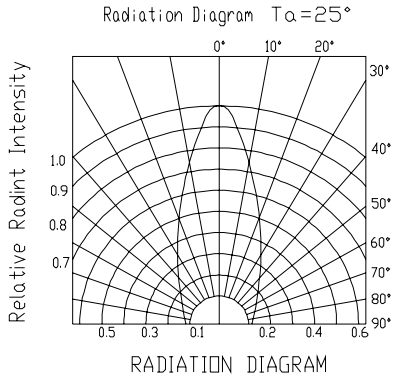












A1643B/SUR/S530-A3

■ 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℃ I_F = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85℃ / 85% RH	1000 HRS	76 PCS	0/1

EVERLIGHT ELECTRONICS CO.,LTD.

Technical Data Sheet

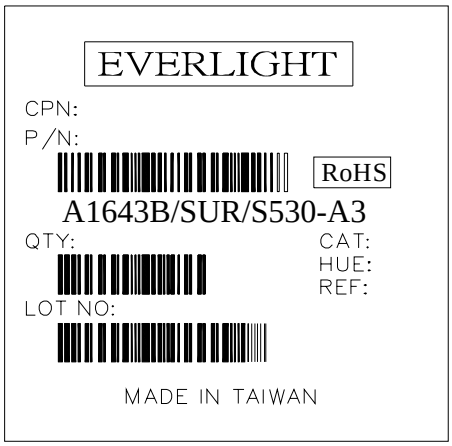
4.7mm Round Type LED Lamps

A1643B/SUR/S530-A3

Packing Quantity Specification

1. 250PCS/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.
3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don’t reproduce or cause anyone to reproduce them without EVERLIGHT’sconsent.

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