

Technical Data Sheet

3.0mm 2pcs Circuit Board Indicator

A1844B/2SYG2SUR/S530-E2

■ 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 :

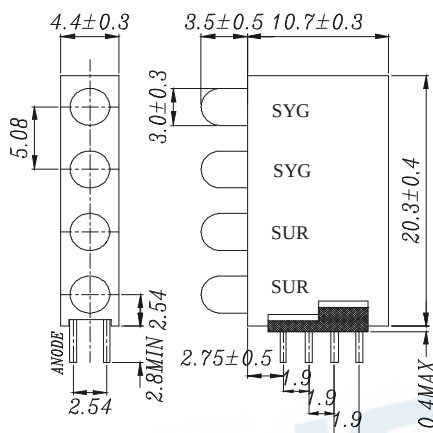
- 1.Used as indicators of indicating the Degree, Functions, Positions etc, in electronic instruments.

LED PART NO.	Chip		Lens Color
	Material	Emitted Color	
264-10SYGD/S530-E2/F182-17	AlGaInP	Super Yellow Green	Green Diffused
264-10SURD/S530-A3-L	AlGaInP	Hyper Red	Red Diffused



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Package Dimensions



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

Parameter	Symbol		Rating	Unit
Forward Current	If	SYG	25	mA
		SUR	25	
Operating Temperature	Topr		-40 to +85	°C
Storage Temperature	Tstg		-40 to +100	°C
Soldering Temperature	Tsol		260	°C
Electrostatic Discharge	ESD	SYG	2000	V
		SUR	2000	
Power Dissipation	Pd	SYG	60	mW
		SUR	60	

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol		Condition	Min.	Typ.	Max.	Unit
Forward Voltage	SYG	VF	IF= 20 mA	/	2.0	2.4	V
	SUR			/	2.0	2.4	
Reverse Current	SYG	IR	VR= 5 V	/	/	10	μA
	SUR			/	/	10	
Luminous Intensity	SYG	Iv	IF= 20 mA	25	50	/	mcd
	SUR			63	125	/	
Viewing Angle	SYG	2θ 1/2	IF= 20 mA	/	60	/	deg
	SUR			/	60	/	
Peak Wavelength	SYG	λp	IF= 20 mA	/	575	/	nm
	SUR			/	632	/	
Dominant Wavelength	SYG	λd	IF= 20 mA	/	573	/	nm
	SUR			/	624	/	
Spectrum Radiation Bandwidth	SYG	△λ	IF= 20 mA	/	20	/	nm
	SUR			/	20	/	

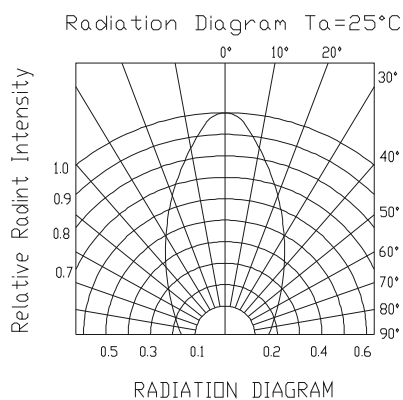
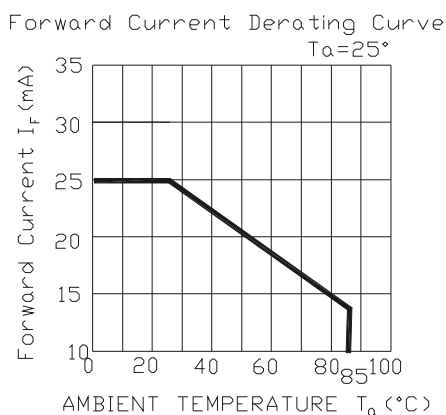
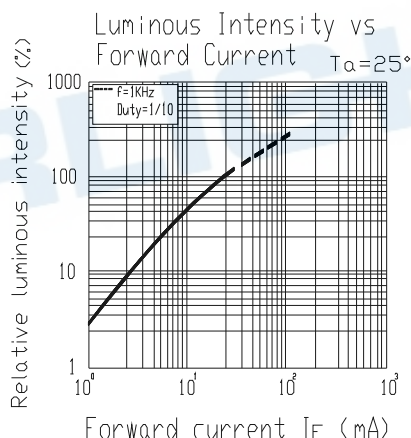
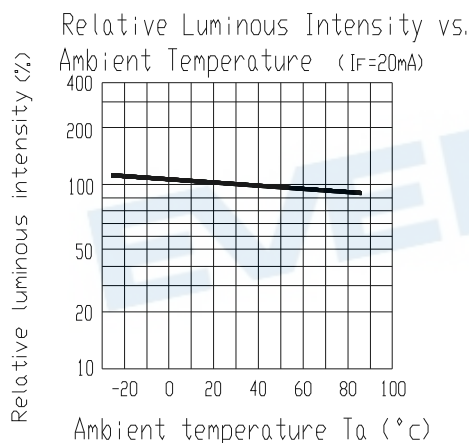
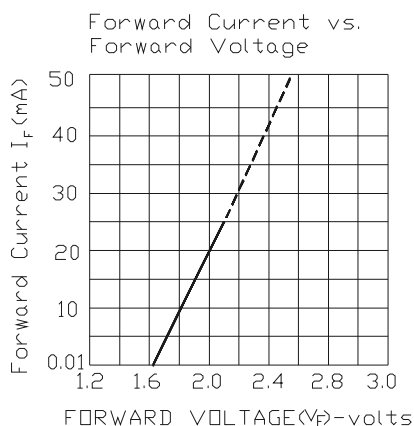
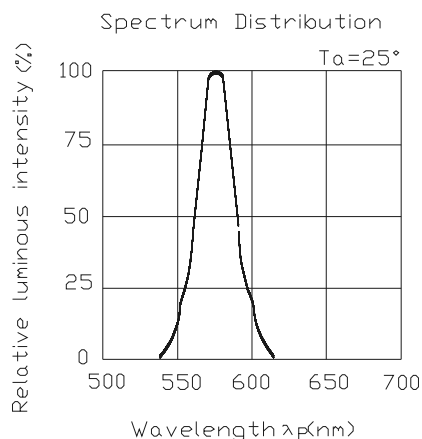
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Typical Electro-Optical Characteristic Curves:

(SYG)



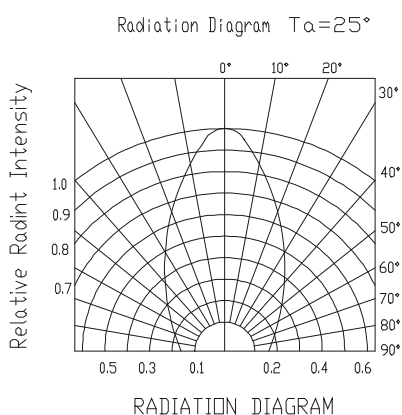
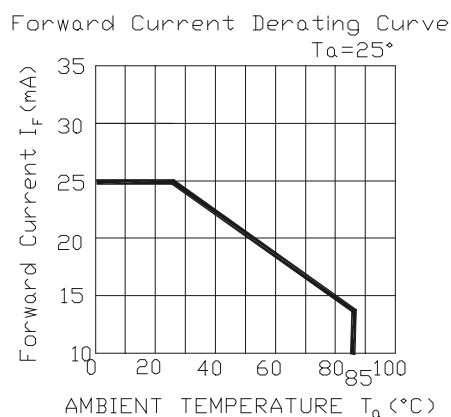
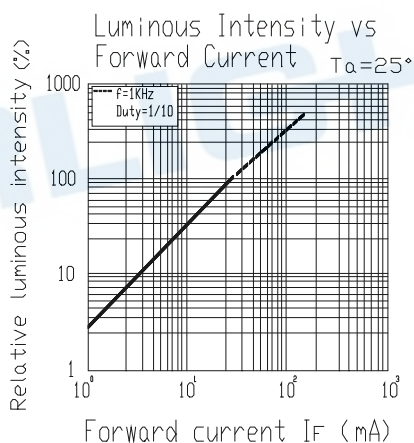
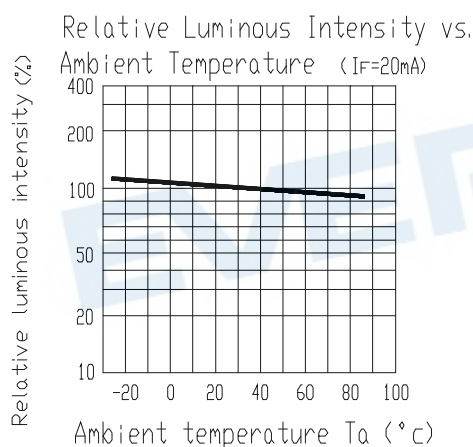
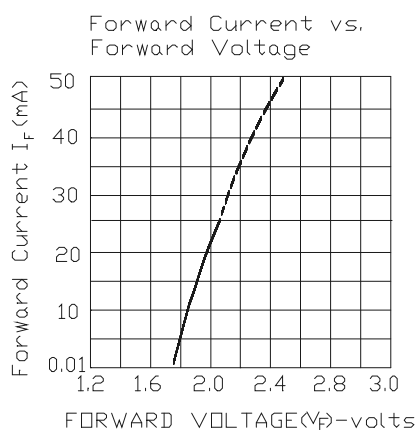
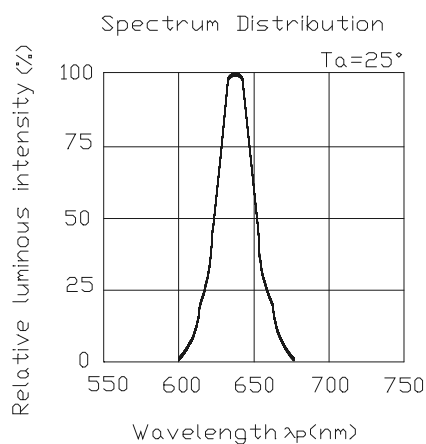
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Typical Electro-Optical Characteristic Curves:

< SUR >



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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	$I_v \leq I_{vt} * 0.5$ or $V_f \geq U$ or $V_f \leq L$	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 : I_{vt} : To test I_v value of the chip before the reliability test

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

U : Upper Specification Limit

L : Lower Specification Limit

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Packing Quantity Specification

1. 140PCS/1Plate · 3Plate/1Box
2. 10Boxes/1Carton

Label Form Specification

	EVERLIGHT	
CPN: P/N:		
		
A1844B/2SYG2SUR/S530-E2		
QTY:	CAT:	
	HUE:	
LOT NO:	REF:	
		
Reference:		
		

CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Dominant Wavelength

REF: Reference

LOT No: Lot Number

MADE IN CHINA: 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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