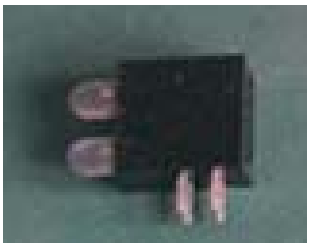
EVERLIGHT ELECTRONICS CO.,LTD.

Technical Data Sheet
3mm 2pcs Circuit Board Indicator

A2784B/2SYGSDRW/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 :

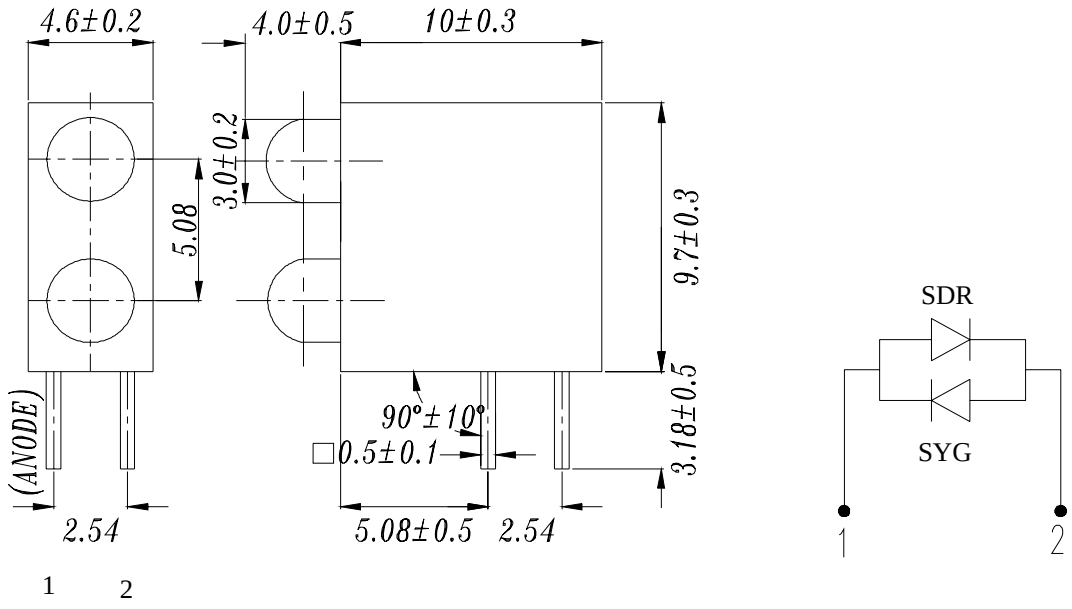
- 1.Used as indicators of indicating the Degree, Functions, Positions etc, in electronic instruments.

PART NO.	Chip		Lens Color
	Material	Emitted Color	
4204SYGSDRW/S530-A3/F45-87	AlGaInP	Super Yellow Green	White Diffused
	AlGaInP	Super Deep-Red	

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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	IF	SYG/S530	25	mA
		SDR/S530	25	
Operating Temperature	Topr		-40 to +85	℃
Storage Temperature	Tstg		-40 to +100	℃
Soldering Temperature	Tsol		260 ± 5	℃
Electrostatic Discharge	ESD	SYG/S530	2000	V
		SDR/S530	2000	
Power Dissipation	Pd	SYG/S530	60	mW
		SDR/S530	60	
Reverse Voltage	VR		5	V

Note: *1:Soldering time ≦ 5 seconds.

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Electro-Optical Characteristics (Ta=25℃)

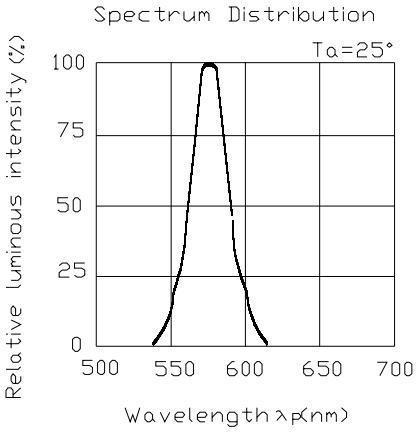
Parameter	Symbol		Condition	Min	Typ	Max	Unit
Luminous Intensity	SYG/S530	IV	I_F= 20 mA	16	32	／	mcd
	SDR/S530			25	50	／	
Peak Wavelength	SYG/S530	λ p	I_F= 20 mA	／	575	／	nm
	SDR/S530			／	650	／	
Dominant Wavelength	SYG/S530	λ d	I_F= 20 mA	／	573	／	nm
	SDR/S530			／	639	／	
Viewing Angle	2θ 1/2		I_F= 20 mA	／	50	／	deg
Spectrum Radiation Bandwidth	SYG/S530	△ λ	I_F= 20 mA	／	20	／	nm
	SDR/S530			／	20	／	
Forward Voltage	SYG/S530	VF	I_F= 20 mA	／	2.0	2.4	V
	SDR/S530			／	2.0	2.4	
Reverse Current	SYG/S530	IR	V_R= 5 V	／	／	10	μ A
	SDR/S530			／	／	10	

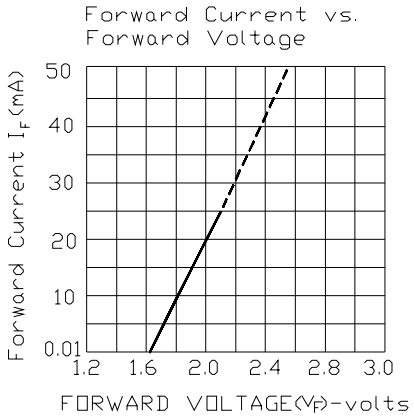
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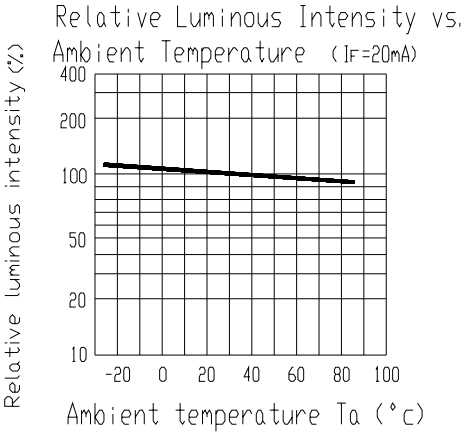
A2784B/2SYGSDRW/S530-A3

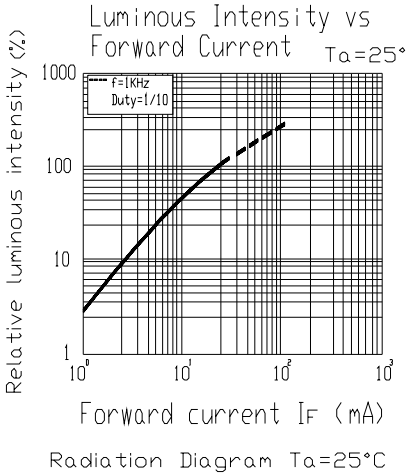
■ Typical Electro-Optical Characteristic Curves:

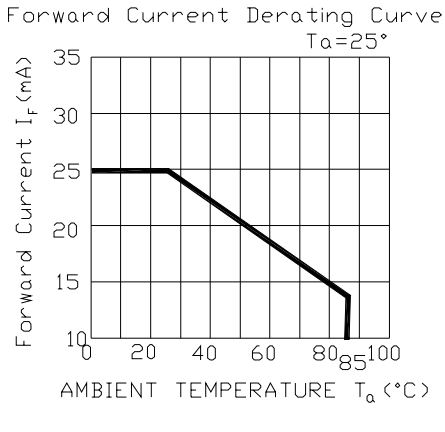
(SYG)



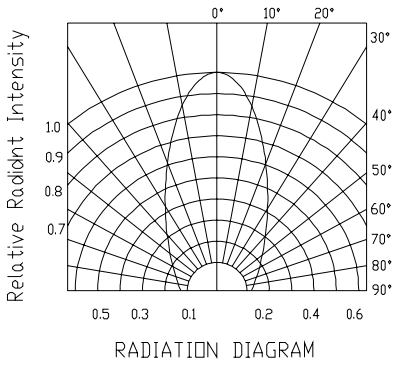








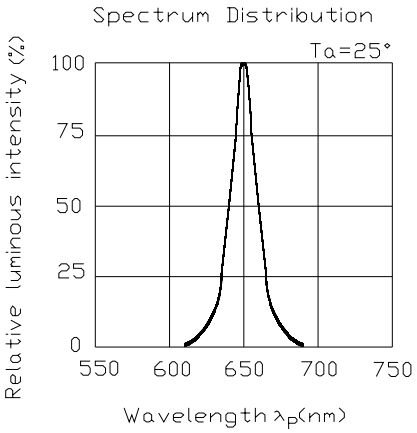
Radiation Diagram Ta=25°C

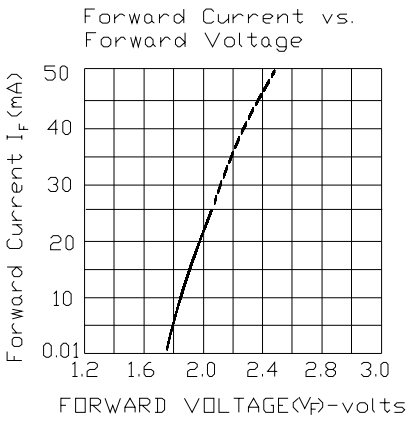


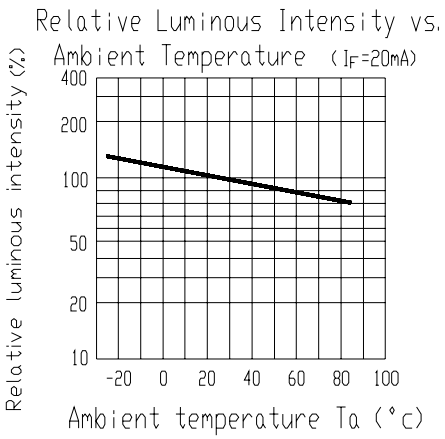
A2784B/2SYGSDRW/S530-A3

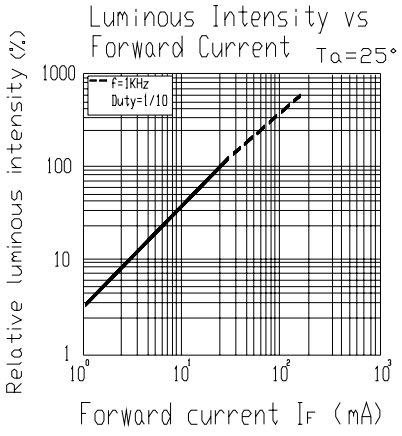
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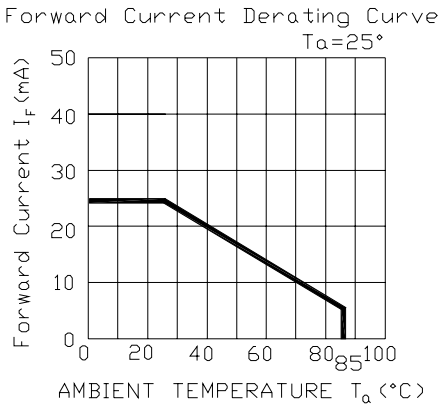
(SDR)

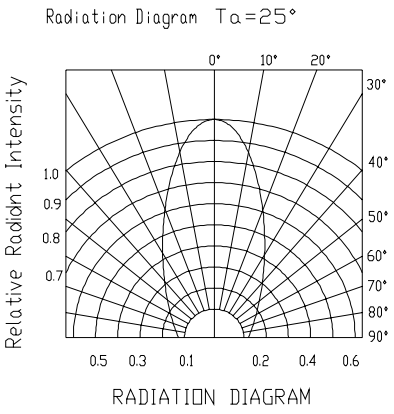












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■ Reliability test items and conditions:

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℃ ± 5 ℃	10 SEC	76 PCS	Iv≦Ivt*0.5 or Vf≧U or Vf≦L	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

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

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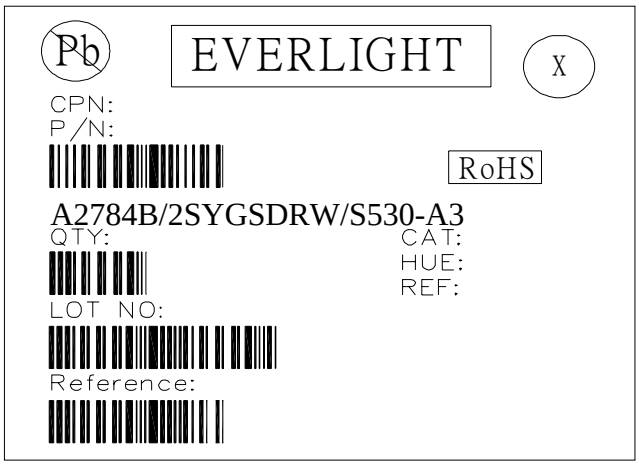
A2784B/2SYGSDRW/S530-A3

Packing Quantity Specification

1.260PCS/1plate，4 plates/1Box

2. 10Boxes/1Carton

Label Form Specification



CPN: Customer’ s Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Dominant Wavelength

REF: Reference

LOT No: Lot Number

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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