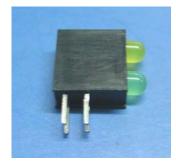
EVERLIGHT

DATASHEET

LAMP A694B/UYSYG/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 Compliance with EU REACH Compliance Halogen Free .(Br <900 ppm ,Cl <900 ppm , Br+Cl < 1500 ppm)

Description

ARRAY=Plastic Holder+ Combinations of Lamps.

The array will easily mount the applicable lamps on any panel up to.

Applications

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

Device Selection Guide

PART NO.	Chip Materials	Emitted Color	Resin Color	
234-10UYD/S530-A3-L	AlGaInP	Brilliant Yellow	Yellow Diffused	
234-10SYGD/S530-E2-L	AlGaInP Brilliant Yellow Green		Green Diffused	

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating		Unit
0 // E 10 /		UY	25	
Continuous Forward Current	IF	SYG	25	— mA
		UY	60	
Peak Forward Current (Duty 1/10 @ 1KHZ)	I _{FP}	SYG	60	mA
Reverse Voltage	V _R	5	5	
		UY	60	
Power Dissipation	Pd	SYG	60	mW
Operating Temperature	T _{opr}	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +100		°C
Soldering Temperature	T _{sol}	260 $^\circ\!{ m C}$ for 5 sec.		

Electro-Optical Characteristics (Ta=25°C)

Parameter	- 1	Symbol	Min	Тур	Max	Unit	Condition
	VF	UY		2.0	2.4	V	I _F =20mA
Forward Voltage		SYG		2.0	2.4		
D	I _R	UY			10	μA	V _R =5V
Reverse Current		SYG			10		
	1	UY	40	80		mcd	I _F =20mA
Luminous Intensity	Ι _V	SYG	25	50			
	201/2	UY		60		deg	I _F =20mA
Viewing Angle		SYG		60			
	C	UY		591		nm	I _F =20mA
Peak Wavelength	λρ	SYG		575			
	٦.	UY		589			I _F =20mA
Dominant Wavelength	λα	SYG		573		- nm	
Spectrum Radiation	$\bigtriangleup \lambda$	UY		20		nm	I _F =20mA
Bandwidth		SYG		20			

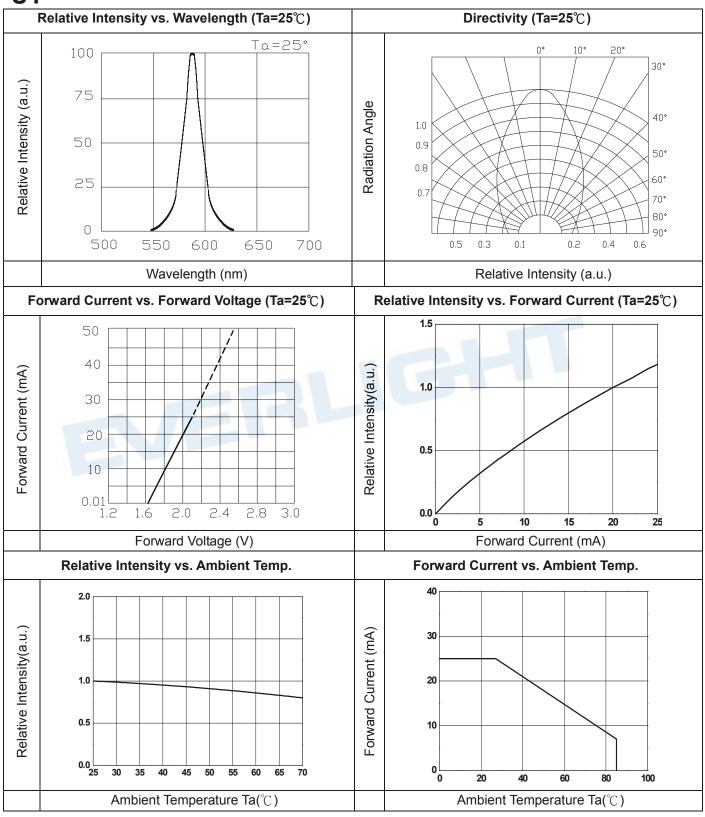
Note: *Measurement Uncertainty of Forward Voltage: ±0.1V *Measurement Uncertainty of Luminous Intensity: ±10%

*Measurement Uncertainty of Dominant Wavelength ±1.0n

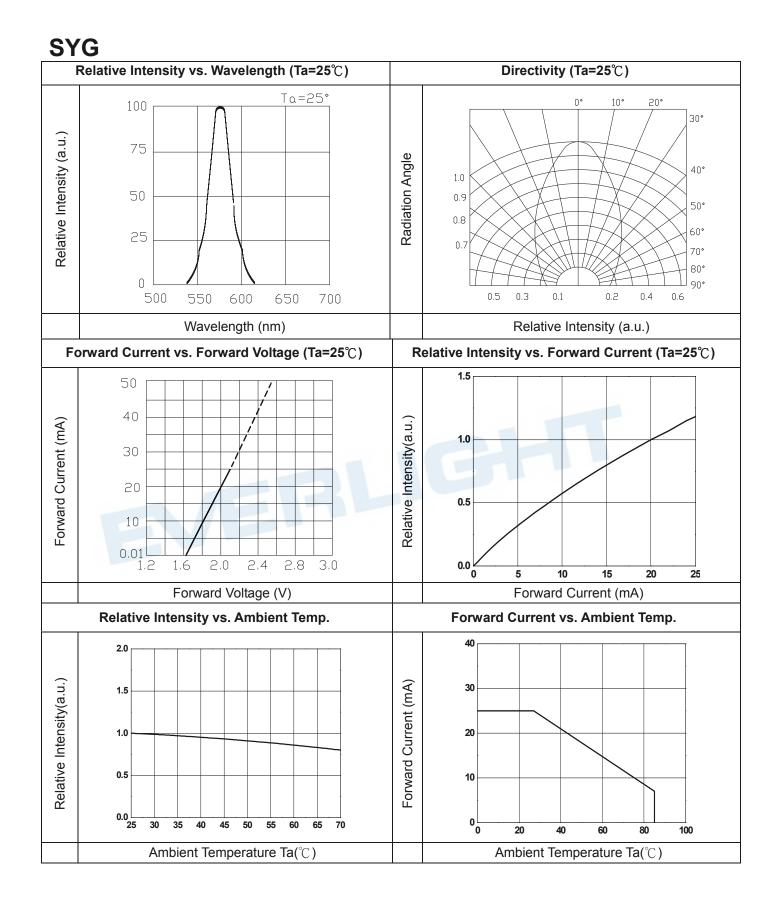


Typical Electro-Optical Characteristics Curves



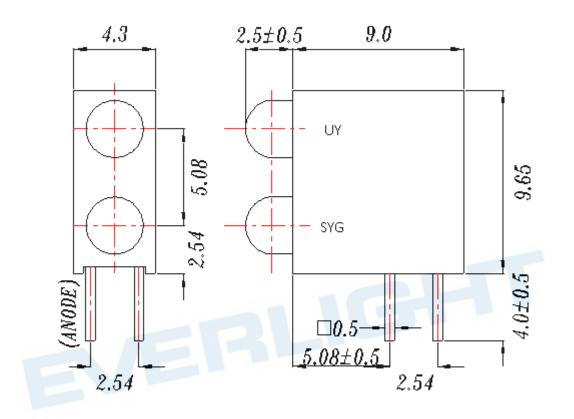








Package Dimension



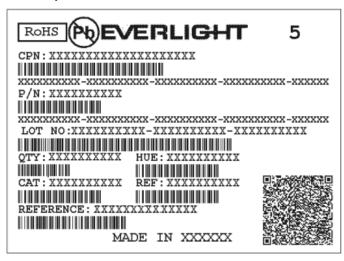
Note: Note:

- 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.

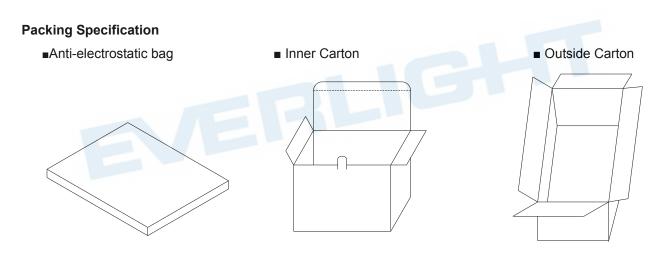


Moisture Resistant Packing Materials

Label Explanation



- CPN: Customer's Production Number
- P/N : Production Number
- QTY: Packing Quantity
- CAT: Ranks
- HUE: Dominant Wavelength
- REF: Forward Voltage
- · LOT No: Lot Number



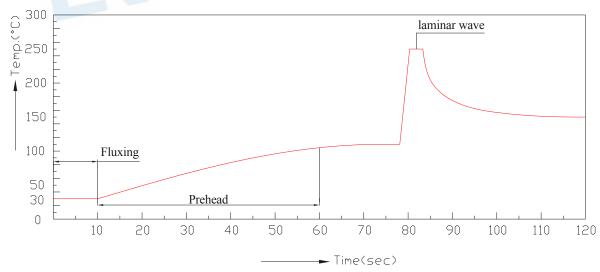
Packing Quantity

- 1. 270 PCS/1 Plate, 4 Plates/1 Inner Carton
- 2. 10 Inner Cartons/1 Outside Carton

Notes

- 1. Lead Forming
 - During lead formation, the leads should be bent at a point at least 3mm from the base of the epoxy bulb.
 - Lead forming should be done before soldering.
 - Avoid stressing the LED package during leads forming. The stress to the base may damage the LED's characteristics or it may break the LEDs.
 - Cut the LED lead frames at room temperature. Cutting the lead frames at high temperatures may cause failure of the LEDs.
 - When mounting the LEDs onto a PCB, the PCB holes must be aligned exactly with the lead position of the LED. If the LEDs are mounted with stress at the leads, it causes deterioration of the epoxy resin and this will degrade the LEDs.
- 2. Storage
 - The LEDs should be stored at 30°C or less and 70%RH or less after being shipped from Everlight and the storage life limits are 3 months. If the LEDs are stored for 3 months or more, they can be stored for a year in a sealed container with a nitrogen atmosphere and moisture absorbent material.
 - Please avoid rapid transitions in ambient temperature, especially, in high humidity environments where condensation can occur.
- 3. Soldering
 - Careful attention should be paid during soldering. When soldering, leave more then 3mm from solder joint to epoxy bulb, and soldering beyond the base of the tie bar is recommended.
 - Recommended soldering conditions:

Hand S	Soldering	DIP Soldering		
Temp. at tip of iron	300°C Max. (30W Max.)	Preheat temp.	100°C Max. (60 sec Max.)	
Soldering time	3 sec Max.	Bath temp. & time	260 Max., 5 sec Max	
Distance	3mm Min.(From solder	Distance	3mm Min. (From solder	
	joint to epoxy bulb)		joint to epoxy bulb)	



Recommended soldering profile

- Avoiding applying any stress to the lead frame while the LEDs are at high temperature particularly when soldering.
- Dip and hand soldering should not be done more than one time
- After soldering the LEDs, the epoxy bulb should be protected from mechanical shock or vibration until the LEDs return to room temperature.

- A rapid-rate process is not recommended for cooling the LEDs down from the peak temperature.
- Although the recommended soldering conditions are specified in the above table, dip or hand soldering at the lowest possible temperature is desirable for the LEDs.
- Wave soldering parameter must be set and maintain according to recommended temperature and dwell time in the solder wave.

4. Cleaning

- When necessary, cleaning should occur only with isopropyl alcohol at room temperature for a duration of no more than one minute. Dry at room temperature before use.
- Do not clean the LEDs by the ultrasonic. When it is absolutely necessary, the influence of ultrasonic cleaning on the LEDs depends on factors such as ultrasonic power and the assembled condition. Ultrasonic cleaning shall be pre-qualified to ensure this will not cause damage to the LED
- 5. Heat Management
 - Heat management of LEDs must be taken into consideration during the design stage of LED application. The current should be de-rated appropriately by referring to the de-rating curve found in each product specification.
 - The temperature surrounding the LED in the application should be controlled. Please refer to the data sheet de-rating curve.
- 6. ESD (Electrostatic Discharge)
 - The products are sensitive to static electricity or surge voltage. ESD can damage a die and its reliability.

When handling the products, the following measures against electrostatic discharge are strongly recommended:

- Eliminating the charge
- Grounded wrist strap, ESD footwear, clothes, and floors
- Grounded workstation equipment and tools
- ESD table/shelf mat made of conductive materials
- Proper grounding is required for all devices, equipment, and machinery used in product assembly. Surge protection should be considered when designing of commercial products.
- If tools or equipment contain insulating materials such as glass or plastic,
 - the following measures against electrostatic discharge are strongly recommended:
 - Dissipating static charge with conductive materials
 - Preventing charge generation with moisture
- 7. Directions for use
 - The LEDs should be operated with forward bias. The driving circuit must be designed so that the LEDs are not subjected to forward or reverse voltage while it is off. If reverse voltage is continuously applied to the LEDs, it may cause migration resulting in LED damage.

DISCLAIMER

- 1. EVERLIGHT reserves the right(s) on the adjustment of product material mix for the specification.
- 2. The product meets EVERLIGHT published specification for a period of twelve (12) months from date of shipment.
- 3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
- 4. 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 the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
- 5. These specification sheets include materials protected under copyright of EVERLIGHT. Reproduction in any form is prohibited without obtaining EVERLIGHT's prior consent.
- 6. This product is not intended to be used for military, aircraft, automotive, medical, life sustaining or life saving applications or any other application which can result in human injury or death. Please contact authorized Everlight sales agent for special application request.



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