



LED Backlight
MODEL NO: BLB-9334A-YG

Device Number: DEA-821-001 REV: 1.1

ECN: _____ Page: 1/5

■ **Features:**

- High Performance
- Free Design
- Longer Life and Low Power Consumption
- Various Color :Blue,Green, Yellow Green(Standard),Orange,Amber,Red

■ **Descriptions:**

LED back light provides uniform ,high output backlighting with low power than CCFL and EL's. There are two back light method are available :

- (1) Bottom Backlight
- (2) Edge Backlight

■ **Applications:**

- LCD Backlight:
 - Medical Instruments
 - Cellular Phone
 - Viedo, Audio Equipment
 - PDA
- Office Automation Equipment
- Measuring Device Illumination



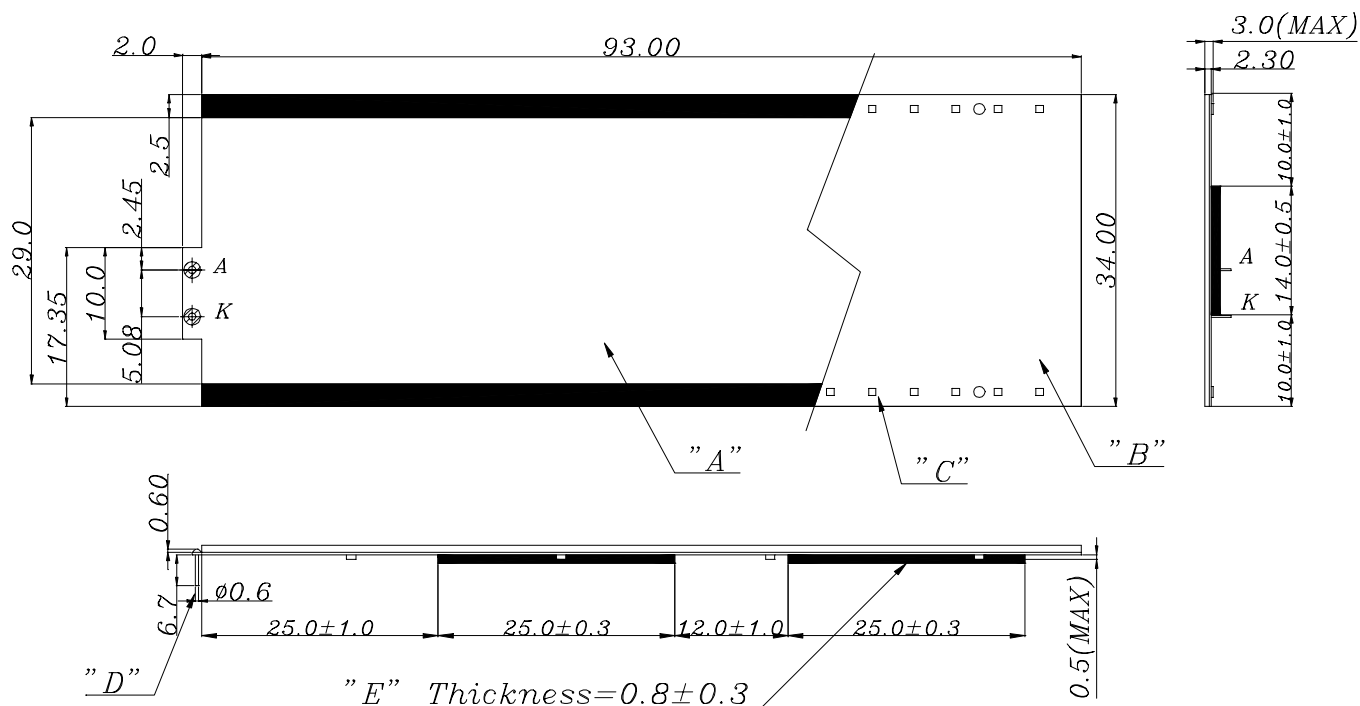
LED Backlight

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■ Package Dimensions:



NO.	PART	MATERIAL
A	Light Guide	Acrylic
B	PCB	FR4
C	Chips	GaP
D	Pins	Cu+Sn
E	Sponge Tape	Polyuethane Foam

■ Notes:

- 1.All dimensions are in millimeters.
2.Tolerance is $\pm 0.2\text{mm}$ unless otherwise noted.



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■ Absolute Maximum Ratings(Ta=25℃):

Parameter	Symbol	Rating	Unit
Forward Current	I _F	400	mA
Reverse Voltage	V _R	8	V
Power Dissipation	P _D	1.84	W
Operating Temperature	T _{opr}	-20 to + 60	℃
Storage Temperature	T _{stg}	-30 to + 70	℃
Soldering Temperature * ¹	* ¹ T _{sol}	260	℃

*Soldering time ≤ 5seconds.

■ Electro-Optical Characteristics (Ta=25℃):

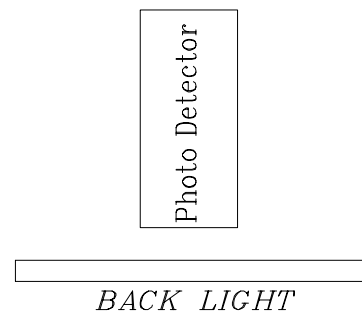
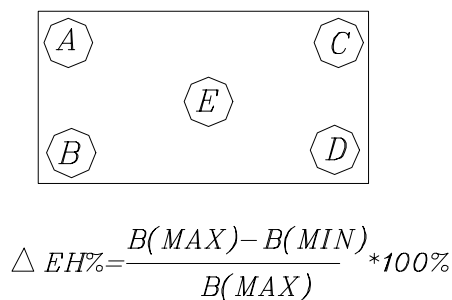
Emitting Color : Yellow Green

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Remark
Forward Voltage	V _F	I _F =200mA	--	4.0	4.6	V	
Reverse Current	I _R	V _R =8V	--	--	0.2	μA	
Luminous Intensity	I _V	I _F =200mA	7.0	10.0	--	cd/m ²	* 1,2
Peak Emission Wavelength	λ _p	I _F =200mA	--	570	--	nm	* 2
Spectral Line Half Width	Δλ	I _F =200mA	--	30	--	nm	
Illuminance Power Deviation	ΔEH	I _F =200mA	--	--	25	%	* 3

1.The test position of luminous intensity is shown in Fig1.

2.The test equipment is Photo Research PR650.

3.The defination of luminous intensity deviation.



Measuring Method: (Ta=25℃, 65%RH)

(Measured by our equipment)

Figure 1 :Point for testing deviation→A,B,C,D,E

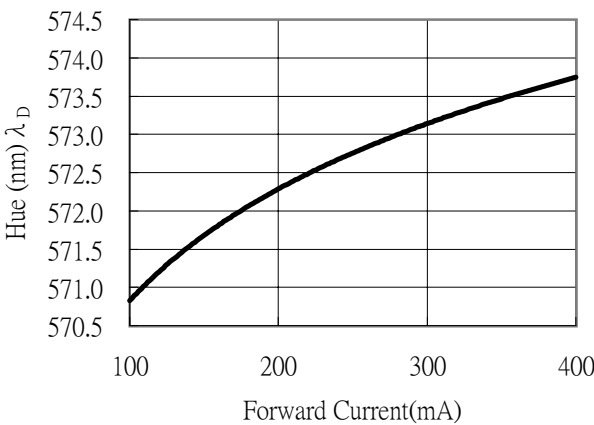
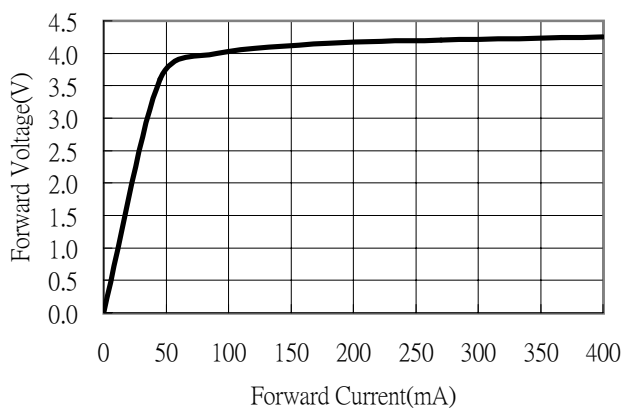


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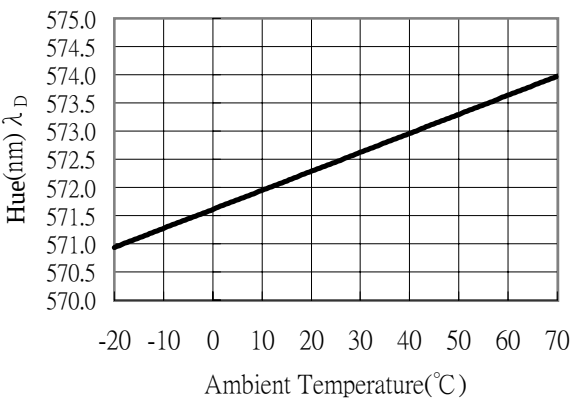
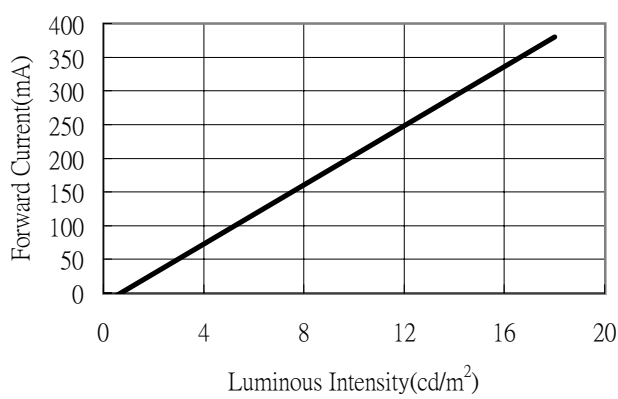
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■Typical Electro-Optical Characteristics Curves:

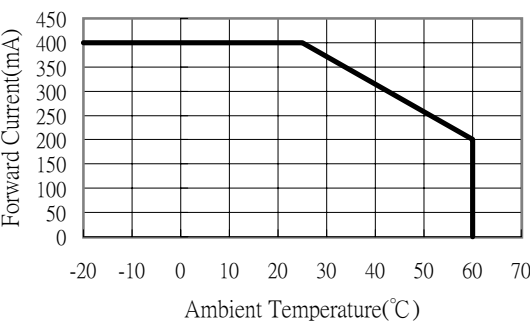
●Forward Voltage vs. Forward Current (Ta=25℃) ●Emission Wavelength vs. Forward Current(Ta=25℃)



●Forward Current vs. Luminous Intensity(Ta=25℃) ●Wavelength vs. Ambient Temperature(If=200mA)



●Forward Current vs. Ambient Temperature





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■ **Reliability Test:**

Items	Conditions	Jusification Criteria	Quantity
High Temperature/ High Humidity Test	70℃,85%RH,1000hr	A,B,C	40dies*3pcs =120dies
High Temperature Storage	70℃,1000hr	A,B,C	40dies*3pcs =120dies
Low Temperature Storage	-30℃,1000hr	A,B,C	40dies*3pcs =120dies
Room Temperature DC Operating Life	25℃,60±10%RH, 1000hrs/200mA	A,B,C	40dies*3pcs =120dies

* Justification criteria:

A: Not one of LED is failed.

B: Not allowed to have warpage, scraping, discoloration, distortion, separation.

C: The variation of brightness must not to be over 30% of initial value luminous intensity.

■ **Circuit Diagram:**

