



EVERLIGHT ELECTRONICS CO.,LTD.

DATA SHEET

MODEL NO : BLB-6718I-YG

DATE : 2000/7/5

DEPARTMENT : R&D CENTER

REVISION : 1.0

RECEIVED			
☒ MASS PRODUCTION			
☐ PRELIMINARY			
☐ CUSTOMER DESIGN			
DEVICE NUMBER : DEA-871-001			
PAGE :4			
CUSTOMER	DESIGNER	CHECKER	APPROVER

REV	DESCRIPTION	RELEASE DATE

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LED Backlight
MODEL NO: BLB-6718I-YG

Device Number: DEA-871-001 REV: 1.0

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■ **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



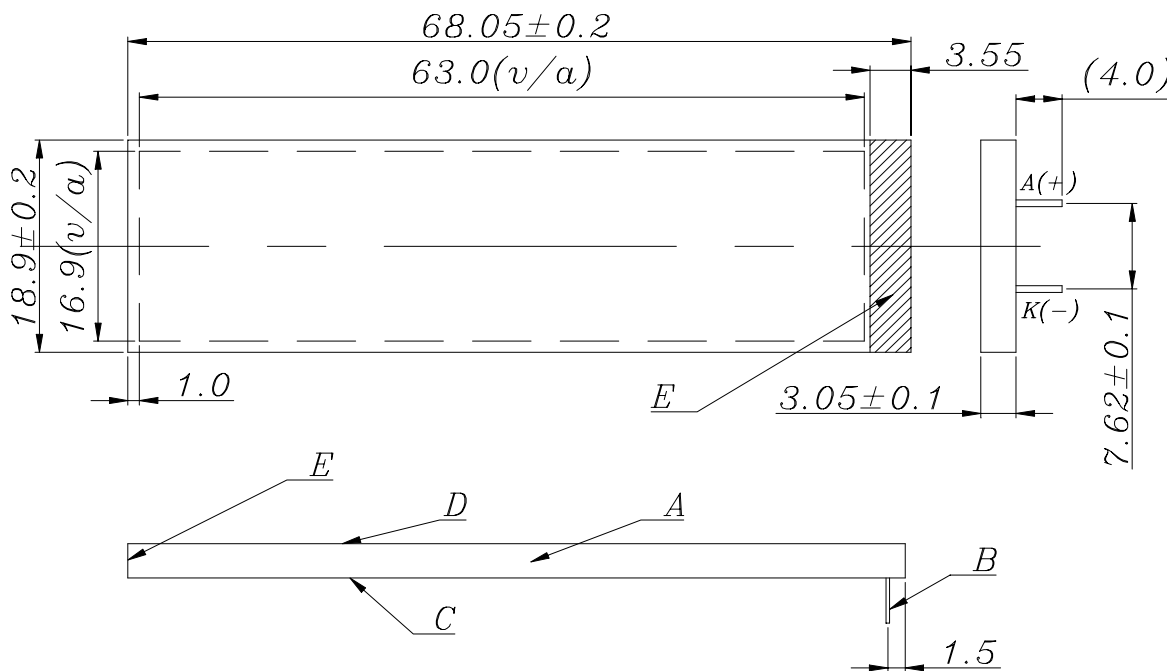
Backlight

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■ Package Dimensions:



NO	PART	MATERIAL
A	Light Guide	Acrylic
B	LED	97-22VGC
C	Reflector	PE
D	Diffuser	PE
E	Silver tape	PE

■ Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.2 mm unless otherwise noted.



Backlight

Device Number: DEA-871-001 REV: 1.0MODEL NO: BLB-6718I-YG

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■ Absolute Maximum Ratings (Ta=25°C):

Parameter	Symbol	Rating	Unit
Forward Current	I _F	25	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	0.1	W
Operating Temperature	T _{opr}	-20 to + 70	°C
Storage Temperature	T _{stg}	-30 to + 80	°C
Soldering Temperature * ¹	* ¹ T _{sol}	260	°C

*1: Just to used manual iron soldering. (Soldering time ≤ 5seconds.)

■ Electro-Optical Characteristics (Ta=25°C):

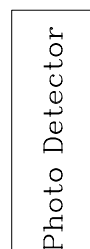
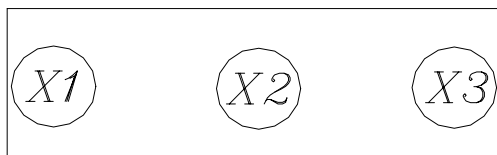
Emitting Color : Yellow Green

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Remark
Forward Voltage	V _F	I _F =20mA	--	4.2	4.8	V	
Reverse Current	I _R	V _R =5V	--	--	10	μA	
Luminous Intensity	I _V	I _F =20mA	10	16	--	cd/m ²	* 1,2
Peak Emission Wavelength	λ _P	I _F =20mA	--	570	--	nm	* 2
Spectral Line Half Width	Δλ	I _F =20mA	--	30	--	nm	
Illuminance Power Deviation	ΔEH	I _F =20mA	--	--	25	%	* 3

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

2. The test equipment is Photo detector UDT: Model # 2153.

3. The definition of luminous intensity deviation:



$$\Delta EH\% = \frac{B(MAX) - B(MIN)}{B(MAX)} * 100\%$$

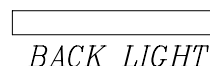
Measuring Method: (Ta=25°C, 65%RH)
(Measured by our equipment)

Figure 1 : Point for testing deviation → X1, X2, X3



Backlight

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■ Reliability Test:

Items	Conditions	Jusification Criteria	Quantity
High Temperature/ High Humidity Test	70℃, 85%RH, 1000hrs	A, B, C	2dies*5PCS =10dies
High Temperature Storage	70℃, 1000hrs	A, B, C	2dies*5PCS =10dies
Low Temperature Storage	-30℃, 1000hrs	A, B, C	2dies*5PCS =10dies
Room Temperature DC Operating Life	25℃, 60±10%RH, 1000hrs/20mA	A, B, C	2dies*5PCS =10dies

* 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:

