



EVERLIGHT ELECTRONICS CO.,LTD.

DATA SHEET

MODEL NO : BLB-10722B-UG

DATE : 2000/03/17

DEPARTMENT : R&D CENTER

REVISION : 1.1

RECEIVED			
☒ MASS PRODUCTION			
☐ PRELIMINARY			
☐ CUSTOMER DESIGN			
DEVICE NUMBER : DEA-857-001			
PAGE :4			
CUSTOMER	DESIGNER	CHECKER	APPROVER

1.1	Reduction silver tape in the acrylic side.	2000/3/17
REV	DESCRIPTION	RELEASE DATE

OFFICE : NO 25,Lane 76,Chung Yang Rd,Sec.3 Tucheng, Taipei 236, Taiwan, R.O.C.

TEL : 886-2-2267-2000, 2267-9936

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<http://www.everlight.com>



LED Backlight

MODEL NO: BLB-10722B-UG

Device Number: DEA-857-001 REV: 1.1

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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

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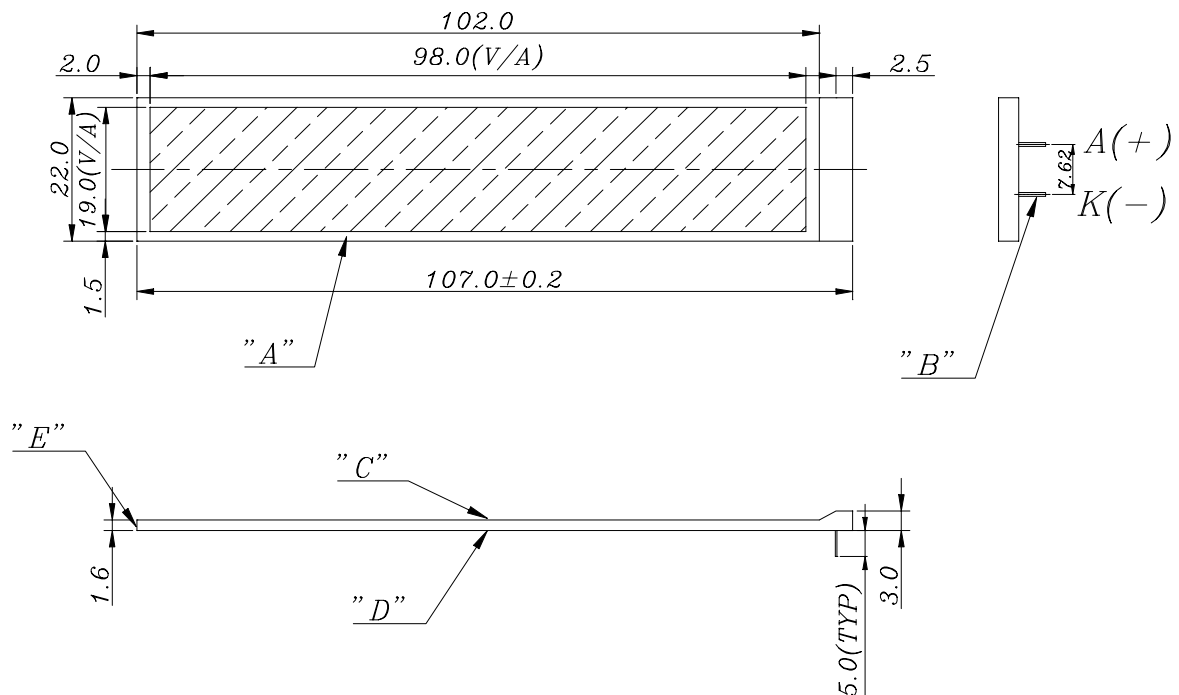
Backlight

MODEL NO: BLB-10722B-UG

Device Number: DEA-857-001 REV: 1.1

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■ Package Dimensions:



NO	PART	MATERIAL
A	Light Guide	Acrylic
B	LED	97-22UGC
C	Diffusive Film	PE
D	Reflective Film	PE
E	Silver tape	PE

■ Notes:

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



Backlight

Device Number: DEA-857-001 REV: 1.1MODEL NO: BLB-10722B-UGPage: 3/4 ECN: _____

■ Absolute Maximum Ratings(Ta=25°C):

Parameter	Symbol	Rating	Unit
Forward Current	^{*2} I _F	25	mA
Reverse Voltage	^{*2} V _R	5	V
Power Dissipation	P _D	0.1	W
Operating Temperature	T _{opr}	-20 to + 60	°C
Storage Temperature	T _{stg}	-30 to + 70	°C
Soldering Temperature * ¹	^{*1} T _{sol}	260	°C

*1: Soldering time ≤ 5seconds.

*2: One Circuit Operated

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

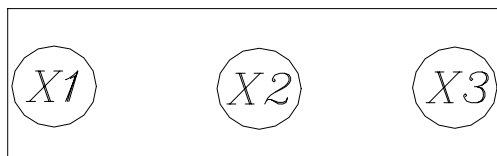
Emitting Color : Yellow Green

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Remark
Forward Voltage	V _F	I _F =15mA	--	4.1	4.4	V	*4
Reverse Current	I _R	V _R =5V	--	--	10	μA	*4
Luminous Intensity	I _V	I _F =15mA	3.5	5.0	--	cd/m ²	*1,2,4
Emission Wavelength	λ _D	I _F =15mA	570	--	576	nm	*2,4
Spectral Line Half Width	Δλ	I _F =15mA	--	30	--	nm	*4
Illuminance Power Deviation	ΔEH	I _F =15mA	--	--	25	%	*3,4

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:



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

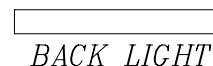
Measuring Method: (Ta=25°C, 65%RH)
(Measured by our equipment)

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*39PCS =78dies
High Temperature Storage	70℃,1000hrs	A,B,C	2dies*39PCS =78dies
Low Temperature Storage	-30℃,1000hrs	A,B,C	2dies*39PCS =78dies
Room Temperature DC Operating Life	25℃,60±10%RH, 1000hrs/20mA	A,B,C	2dies*39PCS =78dies

* 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:

