



EVERLIGHT ELECTRONICS CO.,LTD.

DATA SHEET

MODEL NO : BL-8417A

DATE : 2000/6/21

DEPARTMENT : R&D CENTER

REVISION : 1.1

RECEIVED			
<input checked="" type="checkbox"/> MASS PRODUCTION			
<input type="checkbox"/> PRELIMINARY			
<input type="checkbox"/> CUSTOMER DESIGN			
DEVICE NUMBER : DEA-417-001			
PAGE :3			
CUSTOMER	DESIGNER	CHECKER	APPROVER

1.1	To unify the formation of data sheet.	2000/6/21
REV	DESCRIPTION	RELEASE DATE

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Backlight

Device Number: DEA-417-001 REV: 1.1

MODEL NO: BL-8417A

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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:

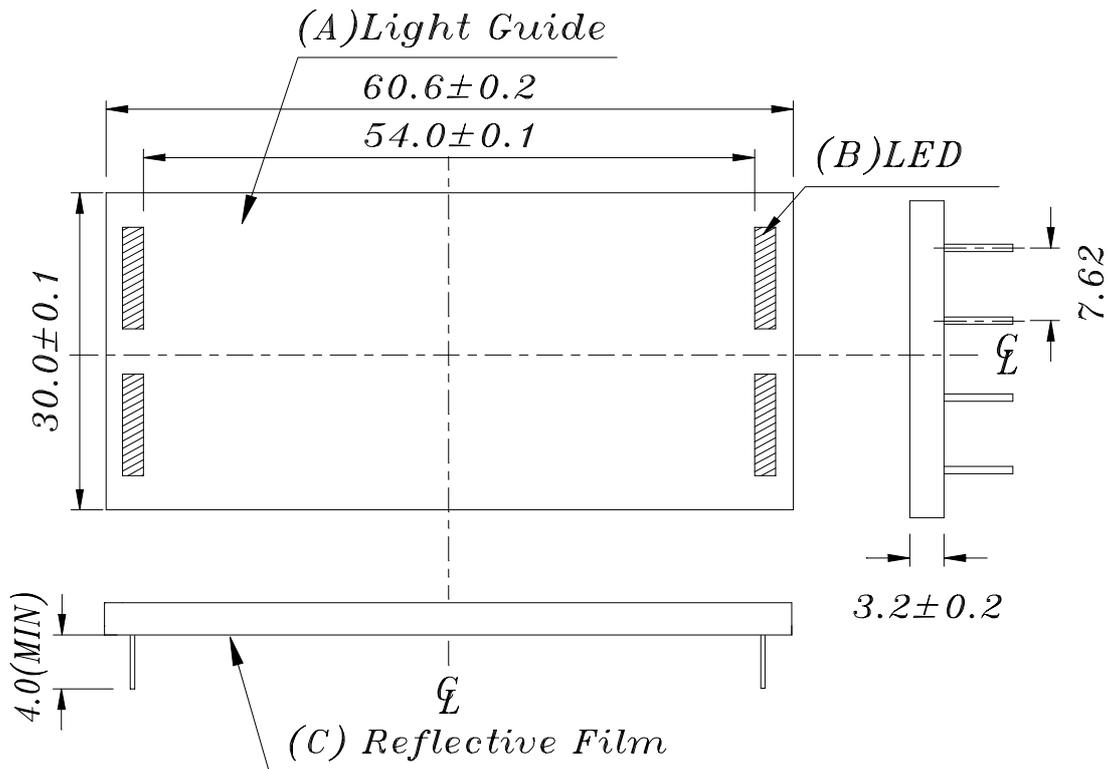
- LCD Backlight:
 - Medical Instruments
 - Cellular Phone
 - Viedo, Audio Equipment
 - PDA
- Office Automation Equipment
- Measuring Device Illumination

Backlight
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Package Dimensions:



NO.	PART	MATERIAL
A	Light Guide	Acrylic
B	LED	94-22VGC/BL
C	Reflective Film	PE

Notes:

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

Circuit Diagram:





Backlight

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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	0.12	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):

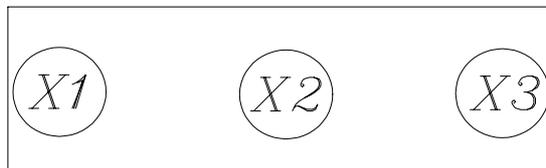
Emitting Color : Yellow Green

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Remark
Forward Voltage	V _F	I _F =20mA	--	4.2	4.8	V	
Reverse Current	I _R	V _R =5V	--	--	10	μA	
Luminous Intensity	I _V	I _F =20mA	27	45	--	cd/m ²	* 1,2
Peak Emission Wavelength	λ _p	I _F =20mA	--	570	--	nm	* 2
Spectral Line Half Width	Δ λ	I _F =20mA	--	30	--	nm	
Illuminance Power Deviation	Δ EH	I _F =20mA	--	--	25	%	* 3

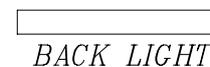
1.The test position of luminous intensity is shown in Fig1.

2.The test equipment is Photo Research PR650.

3.The defination of luminous intensity deviation.



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



Measuring Method: (Ta=25°C,65%RH)

Figure 1 :Point for testing deviation→X1,X2,X3 (Measured by our equipment)