



MODEL NO: BLB-3816B-YG

Device Number: DEA-825-001 REV: 1.0

ECN: Page: 1/3

■ 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

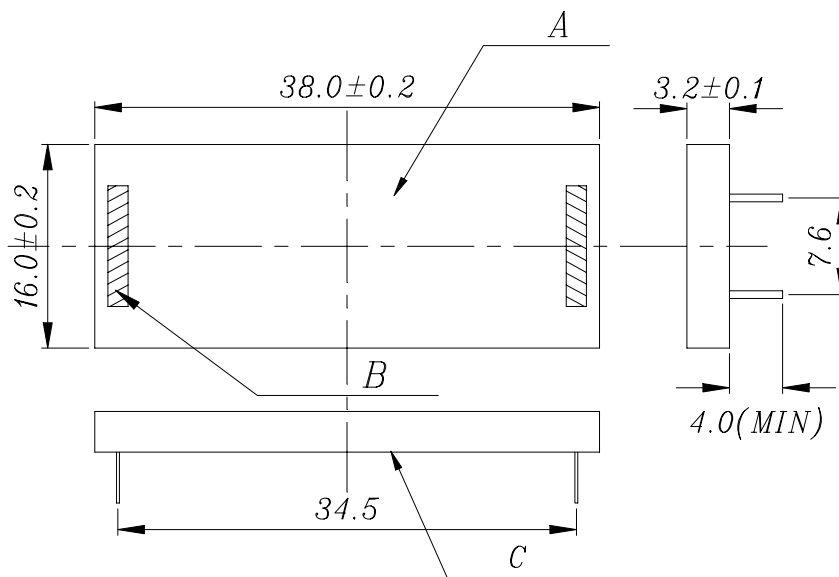
- Office Automation Equipment
- Measuring Device Illumination

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■ Package Dimensions

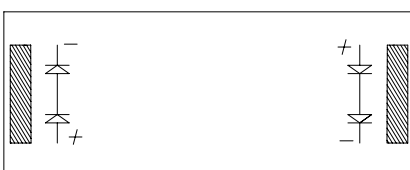


NO.	PART	MATERIAL
A	Light Guide	Acrylic
B	LED	94-22VGC/BL
C	Reflective Film	PE

■ Notes

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

■ Circuit Diagram



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■ Absolute Maximum Ratings(Ta=25℃)

Parameter	Symbol	Rating	Unit
Forward Current	^{*2} I _F	25	mA
Reverse Voltage	^{*2} V _R	5	V
Power Dissipation	P _D	0.12	W
Operating Temperature	T _{opr}	-20 to + 60	℃
Storage Temperature	T _{stg}	-30 to + 70	℃
Soldering Temperature * ¹	^{*1} T _{sol}	260	℃

*1: Soldering time ≤ 5seconds.

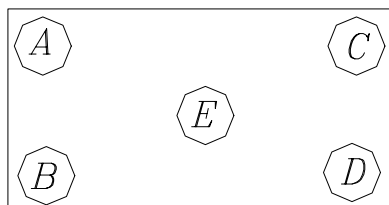
*2: One Circuit Operated

■ Electro-Optical Characteristics (Ta=25℃)

Emitting Color : Yellow Green

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Remark
Forward Voltage	V _F	I _F =20mA	--	4.0	4.6	V	
Reverse Current	I _R	V _R =5V	--	--	10	μA	
Luminous Intensity	I _V	I _F =20mA	30	50	--	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 Fig1.
- 2.The test equipment is Photo Research PR650.
- 3.The defination of luminous intensity deviation.



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

Photo Detector

BACK LIGHT

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

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