



EVERLIGHT ELECTRONICS CO.,LTD.

DATA SHEET

MODEL NO : BLA-8808A-Y

DATE : 2000/05/22

DEPARTMENT : R&D CENTER

REVISION : 1.2

RECEIVED			
☒ MASS PRODUCTION			
☐ PRELIMINARY			
☐ CUSTOMER DESIGN			
DEVICE NUMBER : DEA-856-001			
PAGE 8			
CUSTOMER	DESIGNER	CHECKER	APPROVER

1.2	To modify the circuit .	2000/5/22
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

FAX : 886-2-2267-6244, 2267-6189, 2267-6306

<http://www.everlight.com>



Backlight MODEL NO: BLA-8808A-Y

Device Number: DEA-856-001 REV: 1.2

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■ Features

- High Performance
- Free Design
- Longer Life and Low Power Consumption

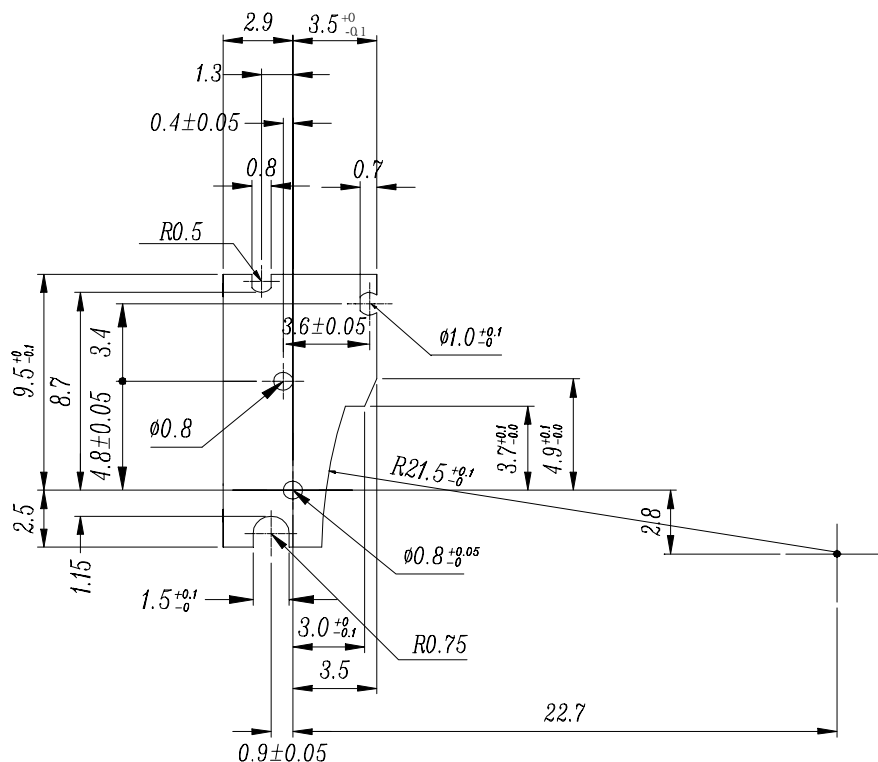
■ Descriptions

The back light for display on camera. It's package dimension is small .

■ Applications

- Camera

(1)PCB:



■ Notes

1. All dimensions are in millimeters.
2. Tolerance is ± 0.1 mm unless otherwise noted.

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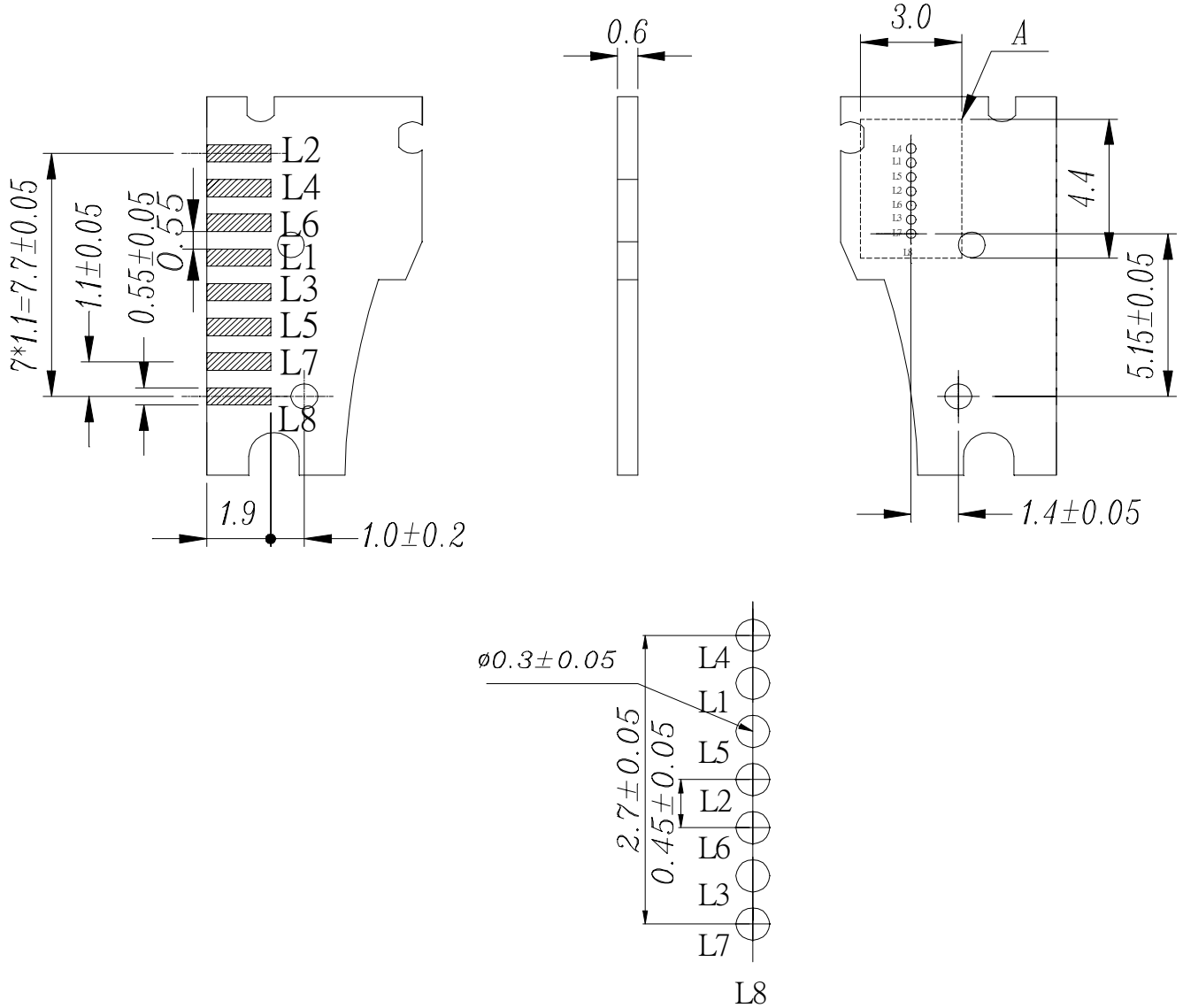
Backlight

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(2)PCB:



Detail:"A"(4:1)

Notes

1. All dimensions are in millimeters.
2. Tolerance is $\pm 0.1\text{mm}$ unless otherwise noted.
3. Distance of L1~L7 LED chip deriating from center of chip should be $\leq \pm 0.04\text{mm}$.
4. L1~L8 is connector solder area, L1~L7 is Anode ,L8 is Cathode.
5. Dotted area is LED chip °
6. Oblique area is connector solder area ,and plate with gold have to be $\geq 3\mu\text{-inch}$ °



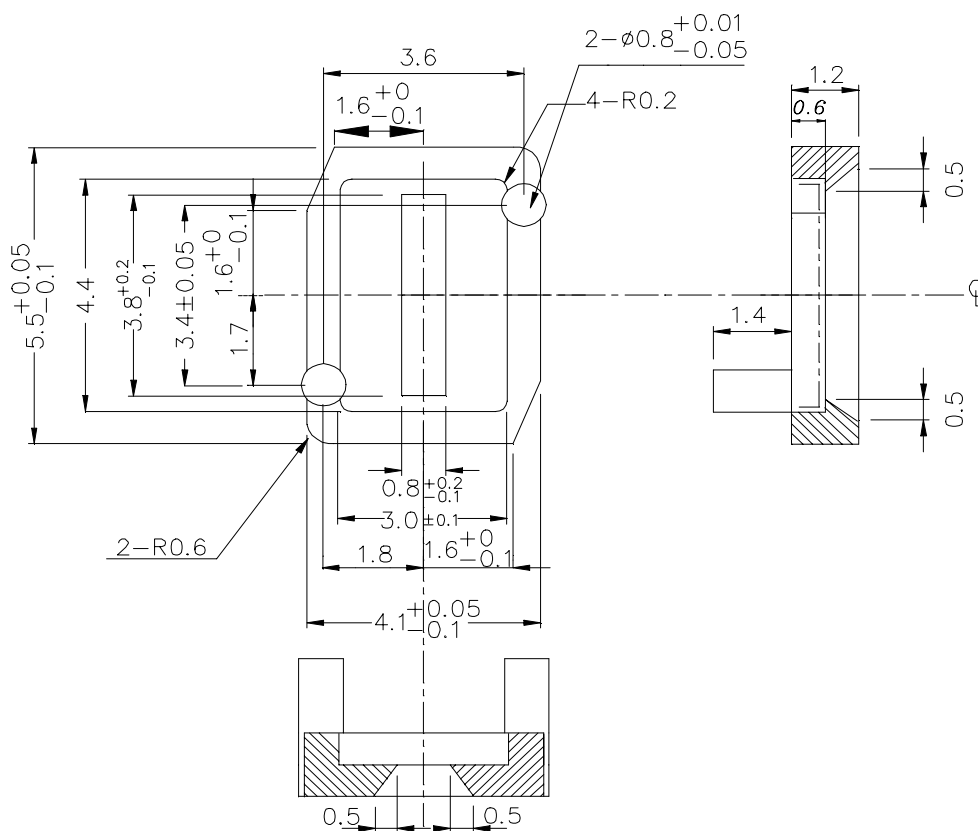
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(3) REF



1.Material: PC

2.Color:Black (not clear)



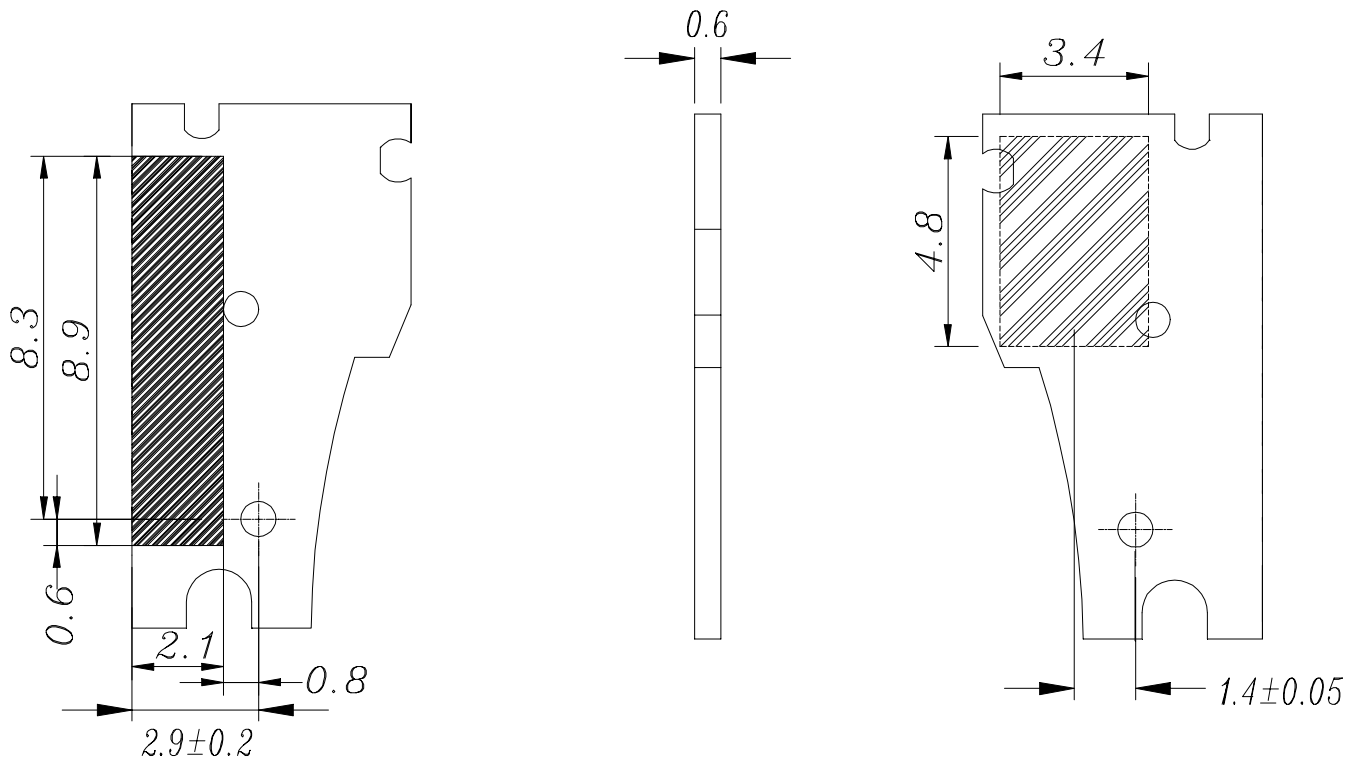
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(4) Anti-solder green lacquer:



1. Hardness of anti-solder green layer is lacquer is over 6H, Insulation is over 10^9 .
2. Obliqued area can't be covered by anti-solder green lacquer.
3. Dimension Tolerance: $\pm 0.1\text{mm}$ °



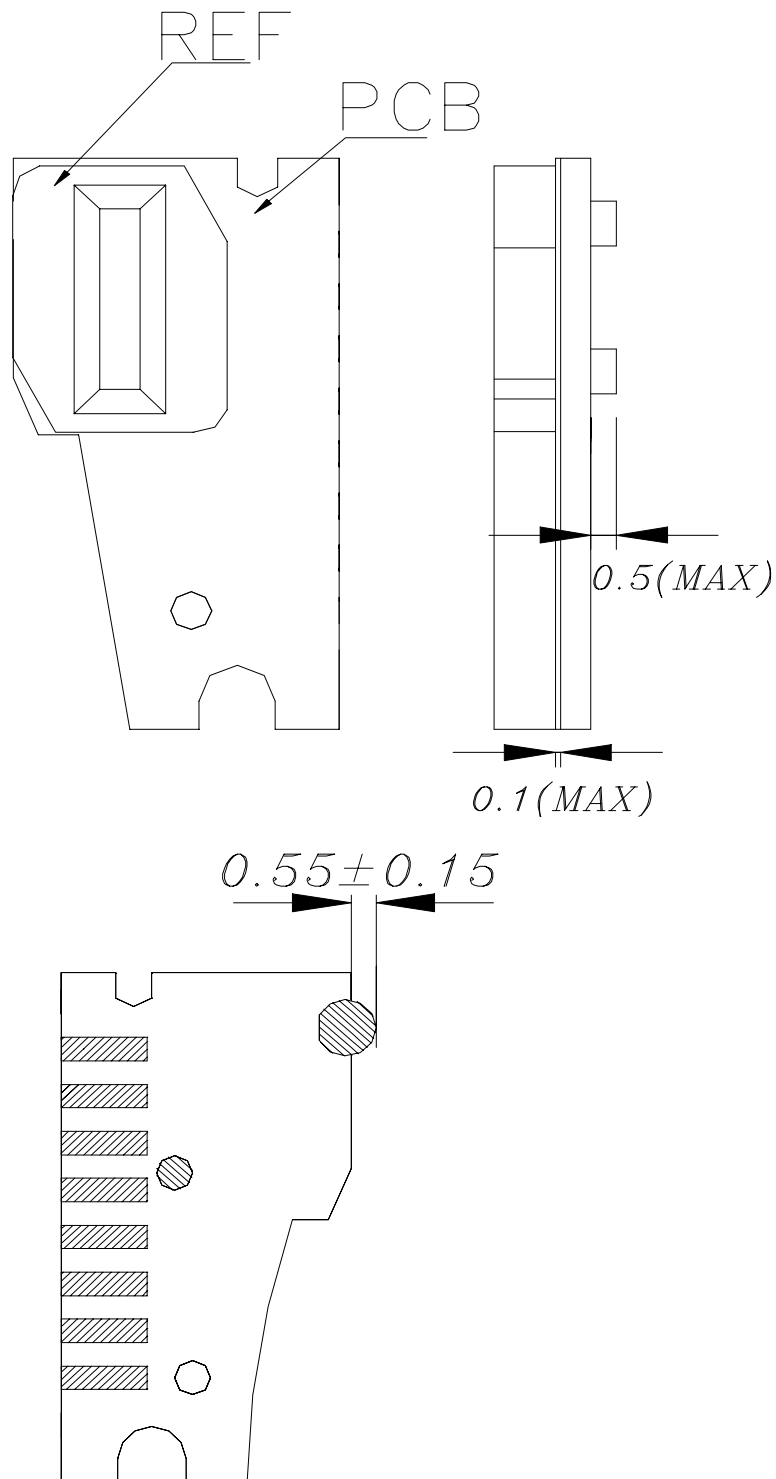
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(5) Assembly:



**Backlight**Device Number: DEA-856-001 REV: 1.2**MODEL NO: BLA-8808A-Y**Page: 6/8 ECN: _____**(6) Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$):**

Parameter	Symbol	Rating	Unit
Forward Current	$^{*1}I_F$	20	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-15 to + 40	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-30 to + 80	$^{\circ}\text{C}$
Soldering Temperature	T_{sol}	260	$^{\circ}\text{C}$

*1: Forward Current Duty=1/10 , Duty Width=0.1/sec

(7) Reliability Test:

Items	Conditions	Jusification Criteria	Quantity
High Temperature/ High Humidity Test	70°C , 85%RH, 1000hr	A,B,C	7dies*12PCS =84dies
High Temperature Storage	80°C , 1000hr	A,B,C	7dies*12PCS =84dies
Low Temperature Storage	-30°C , 1000hr	A,B,C	7dies*12PCS =84dies
Room Temperature DC Operating Life	25°C , $60\pm 10\%$ RH/10mA 1000hr	A,B,C	7dies*12PCS =84dies

*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 20% of initial value luminous intensity.



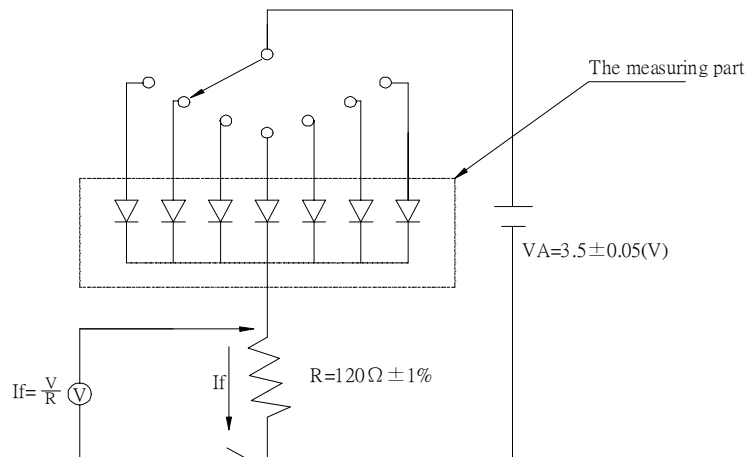
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(8)Circuit Diagram:



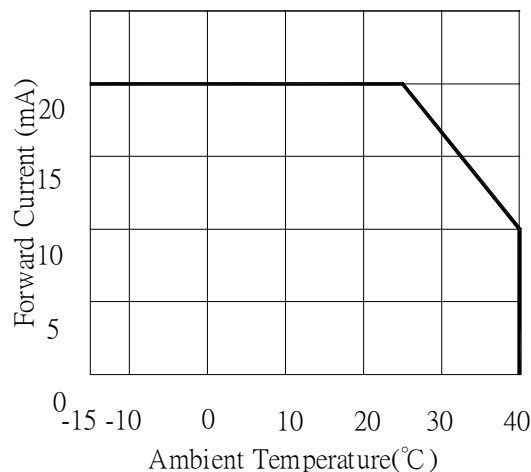
(9)Electro-Optical Characteristics(Ta=25°C):

Item	Symbol	Condition	MIN	TYP	MAX	Unit
Forward Current	If	VA=3.5V	10	12.5	14.5	mA
Reverse Current	Ir	Vr=5V	---	---	10	μA
Luminous Intensity	Iv	If=10mA	1200	2000	3600	mcd
Illuminance Power Deviation	*1 ΔEH	If=10mA	---	---	160	%
Peak Emission Wavelength	λ_p	If=10mA	575	585	595	nm
Spectral Line Half Width	$\Delta \lambda$	If=10mA	---	40	---	nm

*1. $\Delta EH=MAX/MIN$

*2. Ta=25±5°C

(10)Forward Current vs. Ambient Temperature:





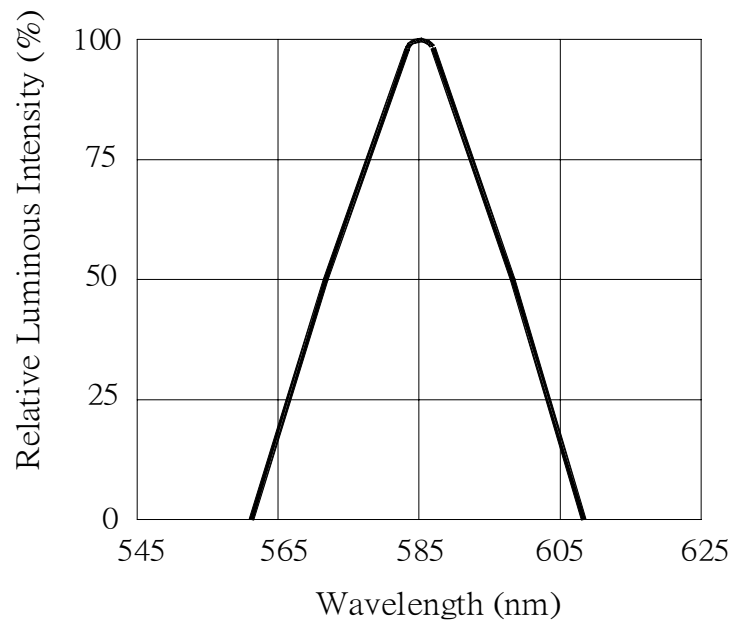
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10-1 Spectrum Distribution



10-2 Forward Current VS. Forward Voltage

