

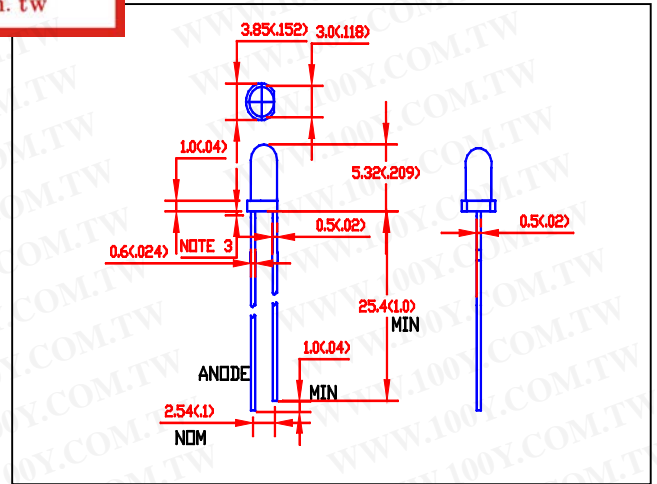
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Characters

- § High intensity.
- § Viewing angle 15°.
- § Reliable and Rugged
- § Standard 3mm diameter package.

ITEM	MATERIALS
Resin(Mold)	Epoxy
Lens Color	Water Transparent
Lead Frame	Ag Plating Iron Alloy
Dice	InGaN

Outline Dimensions

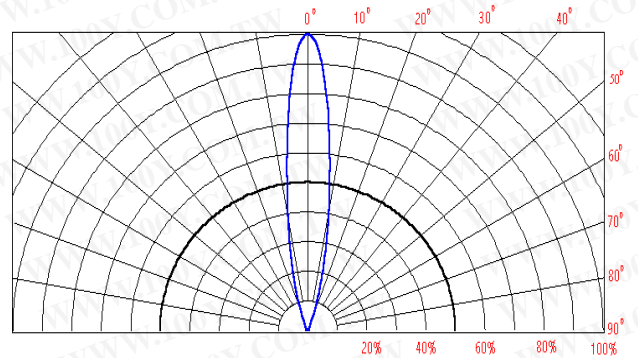


Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Value	Unit
		Blue	
Power Dissipation	PD	120	mW
DC Forward Current	IF	20	mA
Pulsed Forward Current	IFP	100 *	mA
Reverse Voltage	VR	5 ▲	V
Operating Temperature	Topr	-25 ~ +80	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Soldering Temperature△	Tsol	260	°C

* Duty 1/10 Pulse Width 0.1ms ▲ This Rating is Zener Diode
 △ At the position of 4mm from the bottom of the package within 5 seconds.

Directive Characteristics (Ta=25°C)



Electrical-Optical Characteristics (Ta=25°C)

Relative Luminous Intensity

Part No.	Luminous Intensity (mcd) ☆			Forward Voltage (V)			Forward Voltage (V)			Reverse Current (μA)		Wavelength Characteristics (nm)			
	Typ.	Min.	IF (mA)	Typ.	Max.	IF (mA)	Min.	IF (μA)	Max.	VR (V)	λ DTyp.	λ D Max.	Δ λ Typ.	IF (mA)	
LA304B2CA-3C/02	1600	1300	20	3.2	4.0	20	2.0	100	50	5	468	473◆	25	20	

☆ Axial Direction (luminous Intensity) ◆Products are sorted by wavelength, which cannot be specified by customer..

Notes:

- § All dimensions are in millimeters (inches) .
- § Tolerance is ± 0.25 (.010) mm unless otherwise noted.
- § Protruded resin under flange is 1.0 mm (.04) max.
- § Lead spacing is measured where the leads emerge from the package.
- § Caution in ESD: Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, Equipment and machinery must be properly grounded.

PS. LA304B2CA-3C-02 ESD will be available on 3000v DC

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Typical Characteristics

The data typical, and the value is not guaranteed.

IF-VF(Ta=25°C)

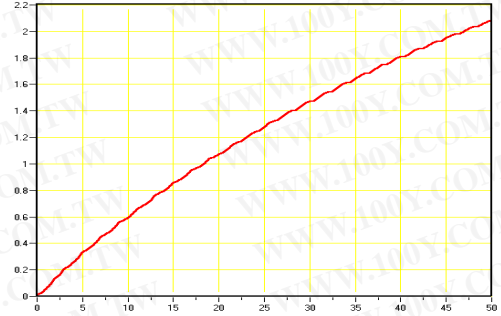
Forward Current IF(mA)

Forward Voltage VF(V)

Relative Luminous Intensity-IF
(Ta=25°C)

Relative Luminous Intensity

Forward Current IF(mA)



Wavelength Characteristics
(Ta=25°C)

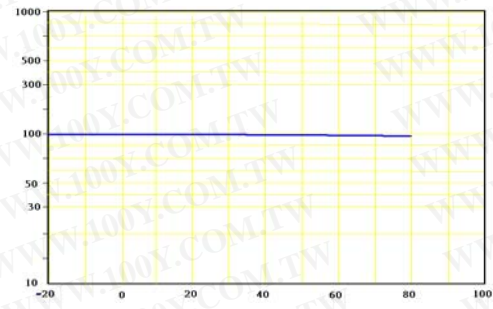
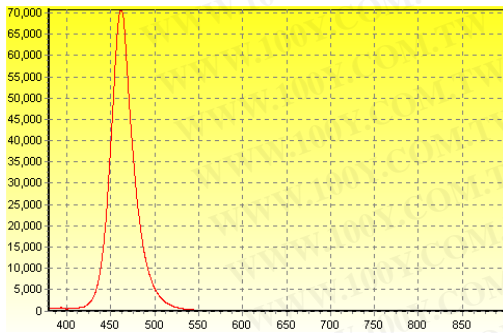
Relative Luminous Intensity

Wavelength λ (nm)

Relative Luminous Intensity-Ta

Relative Luminous Intensity

Ambient Temperature Ta (°C)



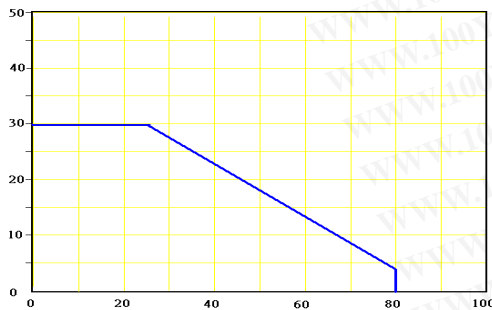
IF-Ta

Forward Current IF(mA)

Ambient Temperature Ta (°C)

$\theta - \lambda$ (Ta=25°C)

Wavelength



Reliability Test Items And Conditions.

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP:260°C±5°C	5SEC	76PCS	0/1
2	Temperature Cycle	H:+85°C 30MIN ∩ 5MIN L:-55°C 30MIN	50CYCLES	76PCS	0/1
3	Thermal Shock	H:+100°C 5MIN ∩ 10SEC L:-10°C 5MIN	50CYCLES	76PCS	0/1
4	High Temperature Storage	TEMP:100°C	1000HRS	76PCS	0/1
5	Low Temperature Storage	TEMP:-55°C	1000HRS	76PCS	0/1
6	DC Operating Life	TEMP:25°C IF=20mA	1000HRS	76PCS	0/1
7	High Temperature/ High Humidity	85°C/85%RH	1000HRS	76PCS	0/1

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