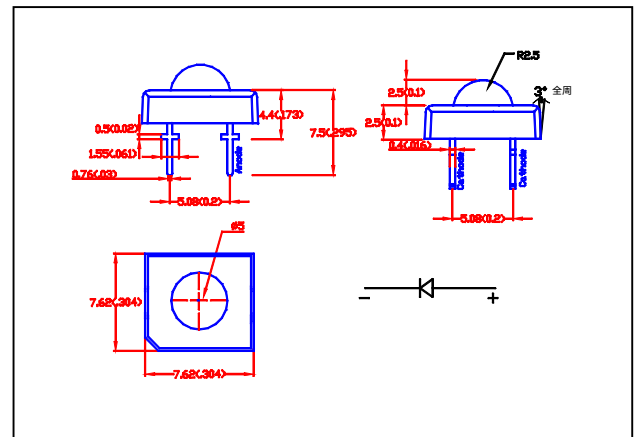


Characters

- § High intensity.
- § Viewing angle 70°.
- § Reliable and Rugged
- § Standard 5mm diameter package.

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

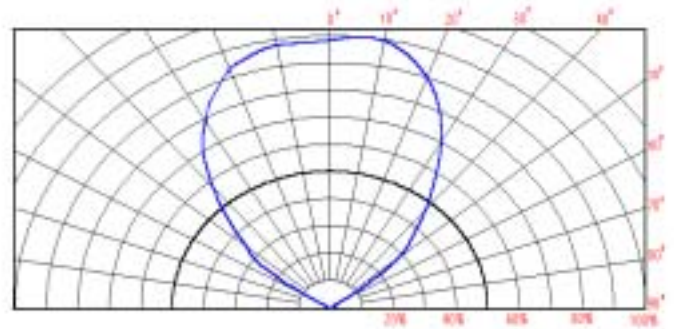
Outline Dimensions



Absolute Maximum Ratings (Ta=25)

Item	Symbol	Value	Unit
		White	
Power Dissipation	PD	120	mW
DC Forward Current	IF	30	mA
Pulsed Forward Current	IFP	100 *	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-25 ~ +80	
Storage Temperature	Tstg	-40 ~ +100	
Soldering Temperature	Tsol	260	

Directive Characteristics (Ta=25)



* 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.

Electrical-Optical Characteristics (Ta=25)

Relative Luminous Intensity

Part No.	Luminous Flux (lm)			Forward Voltage (V)			Forward Voltage (V)		Reverse Current(μ A)		Wavelength Characteristics		
	Typ.	Min.	IF (mA)	Typ.	Max.	IF (mA)	Min.	IF (μ A)	Max.	VR (V)	X	Y	IF (mA)
PBW1CA-3B/01/S	5.30	4	30	3.2	4.0	30	2.0	100	50	5	0.3072	0.3070	30

Axial Direction (luminous Intensity)

Notes:

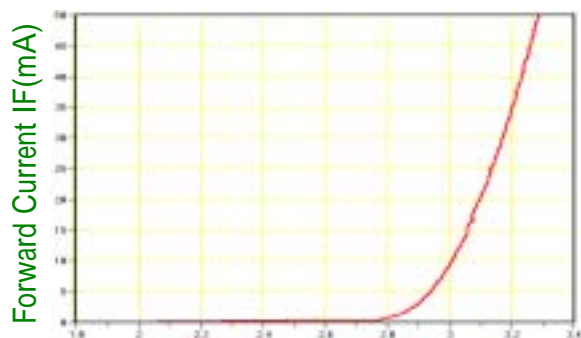
- § All dimensions are in millimeters (inches) .
- § Tolerance is ± 0.25 (.010) mm unless otherwise noted.
- § Protruded resin under flange is 1.0 mm (.04) max.
- § Lead spacing is measured where the leads emerge from the package.
- § Caution in ESD: Static Electricity and surge damages the LED. It is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

PAGE	1/3
EDITION	2.0

Typical Characteristics

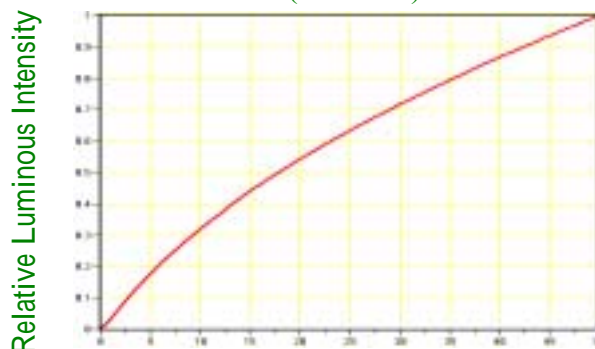
The data typical, and the value is not guaranteed.

IF-VF(Ta=25 °C)



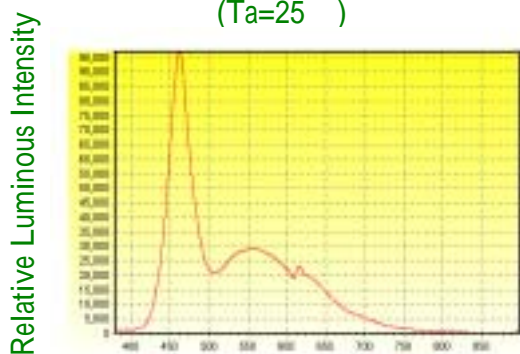
Forward Voltage VF(V)

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



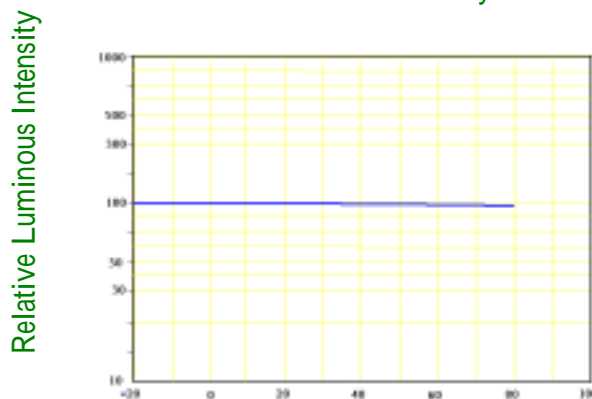
Forward Current IF(mA)

Wavelength Characteristics
(Ta=25 °C)



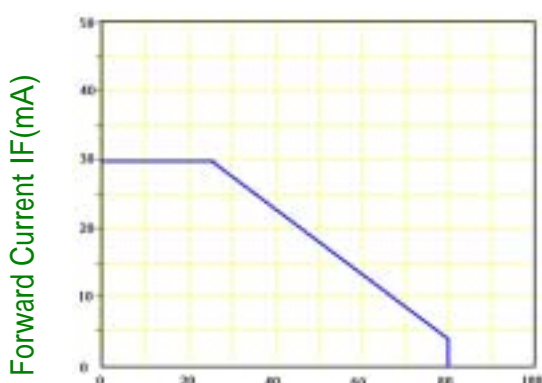
Wavelength λ (nm)

Relative Luminous Intensity-Ta



Ambient Temperature Ta (°C)

IF-Ta



Reliability Test Items And Conditions.

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