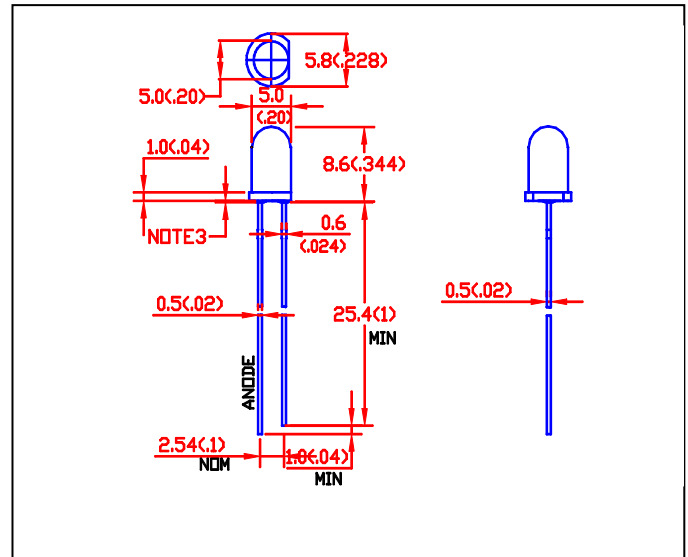


## Characters

- § High intensity.
- § Viewing angle 15°.
- § Reliable and Rugged
- § Standard 5mm diameter package.

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

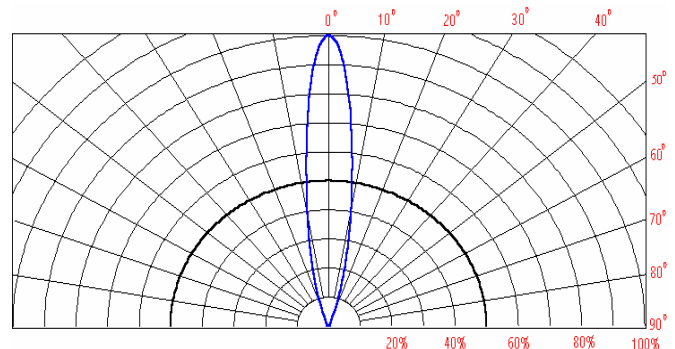
## Outline Dimensions



## Absolute Maximum Ratings ( Ta=25 )

Item	Symbol	Value	Unit
		Green	
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	
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 Intensity ( mcd )			Forward Voltage ( V )			Forward Voltage ( V )		Reverse Current ( $\mu$ A )		Wavelength Characteristics ( nm )			
	Typ.	Min.	IF ( mA )	Typ.	Max.	IF ( mA )	Min.	IF ( $\mu$ A )	Max.	VR ( V )	D Typ.	D Max.	Typ.	IF ( mA )
BL503G6CA-3C/01	12000	9200	20	3.2	4.0	20	2.0	100	50	5	518	523	25	20

Axial Direction (luminous Intensity )

Products are sorted by wavelength, which cannot be specified by customer..

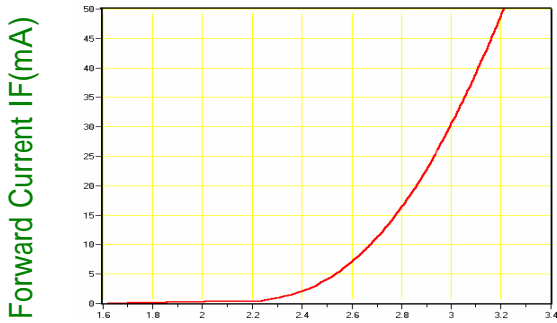
## Notes:

- § All dimensions are in millimeters ( inches ) .
- § Tolerance is  $\pm 0.25$  ( .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.

## Typical Characteristics

The data typical, and the value is not guaranteed.

IF-VF(Ta=25 °C)



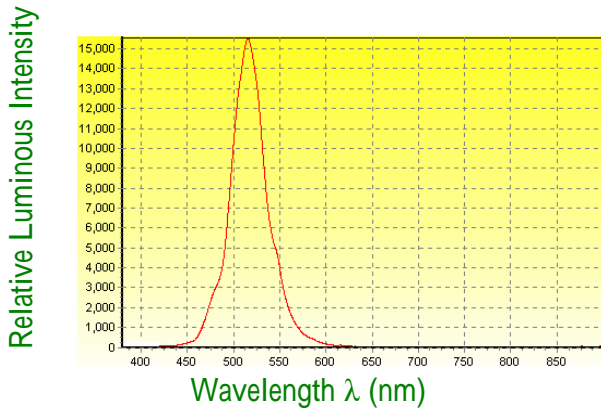
Forward Voltage VF(V)

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



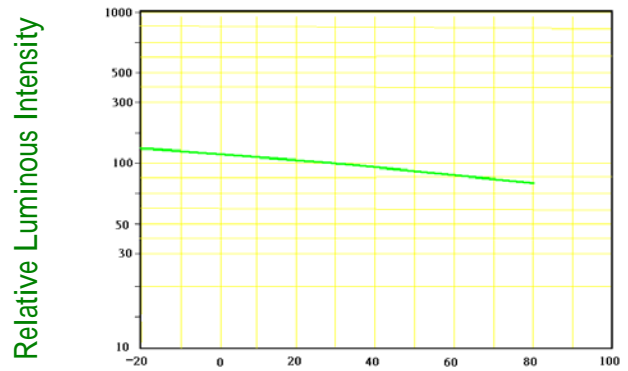
Forward Current IF(mA)

Wavelength Characteristics (Ta=25 °C)



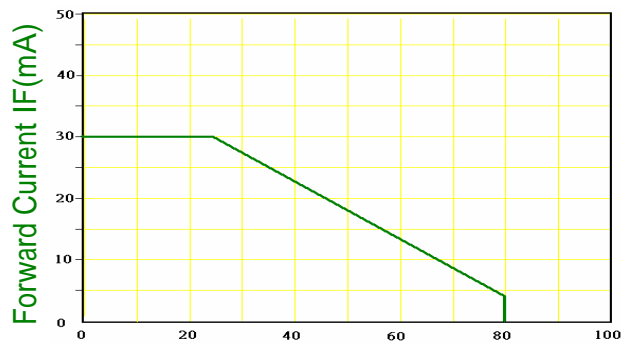
Wavelength λ (nm)

Relative Luminous Intensity-Ta



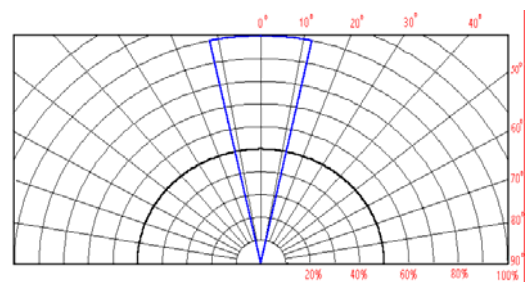
Ambient Temperature Ta ( °C)

IF-Ta



Ambient Temperature Ta ( °C)

θ - λ(Ta=25 °C)



Wavelength λ (nm)

## 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