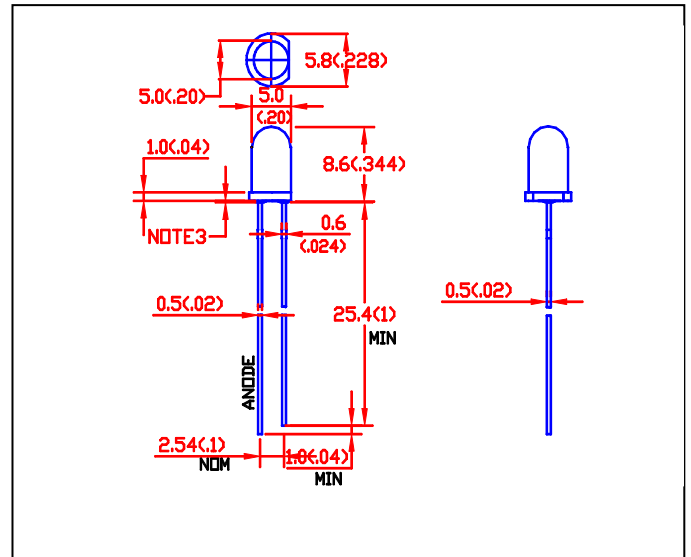


Characters

- § 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



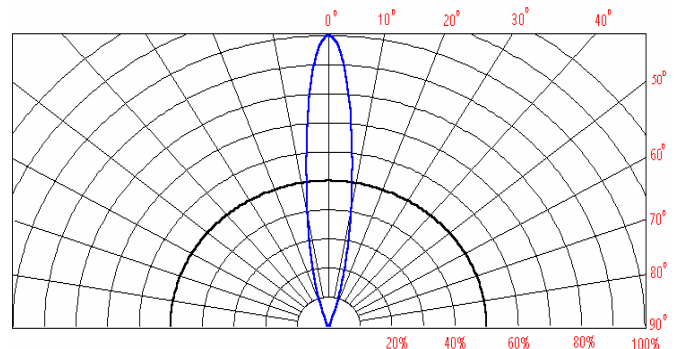
Absolute Maximum Ratings (Ta=25°C)

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	°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 D Typ.	λ D Max.	Δ λ 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..

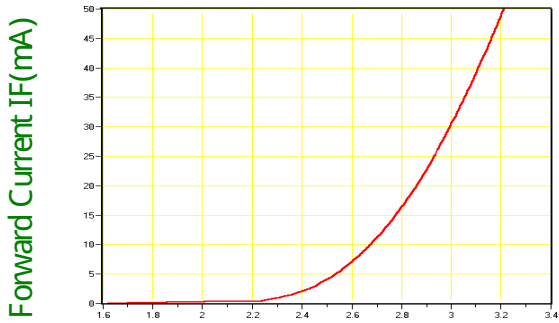
Notes:

- § All dimensions are in millimeters (inches) .
- § Tolerance is ± 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

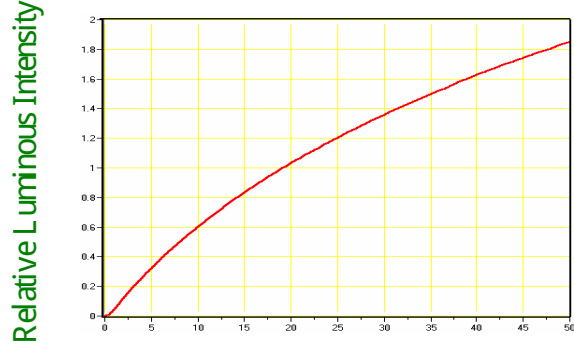
The data typical, and the value is not guaranteed.

IF-VF(Ta=25°C)



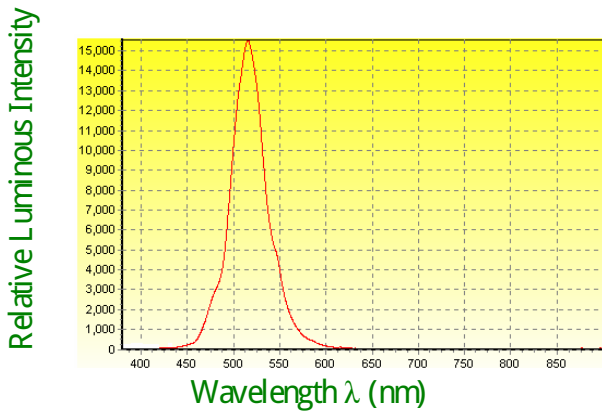
Forward Voltage VF(V)

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



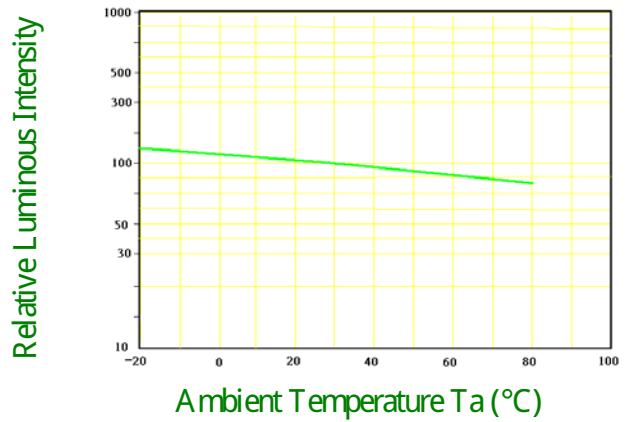
Forward Current IF(mA)

Wavelength Characteristics (Ta=25°C)



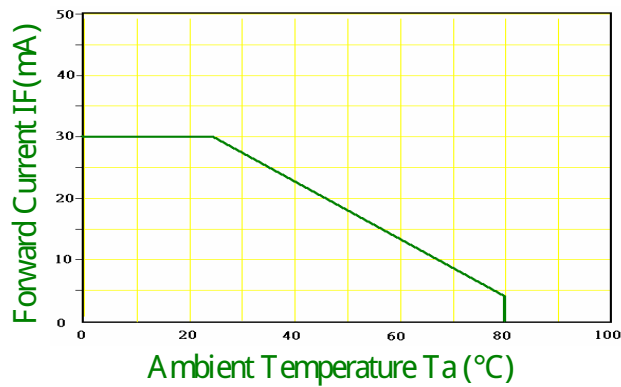
Wavelength λ (nm)

Relative Luminous Intensity-Ta



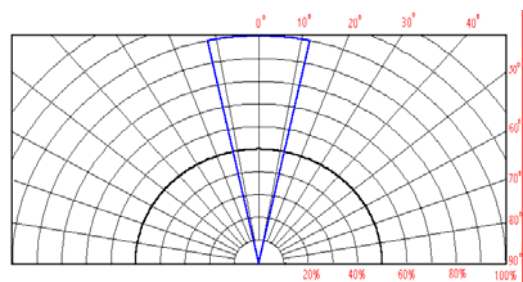
Ambient Temperature Ta (°C)

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°C±5°C	5SEC	76PCS	0/1
2	Temperature Cycle	H:+85°C 30MIN J 5MIN L:-55°C 30MIN	50CYCLES	76PCS	0/1
3	Thermal Shock	H:+100°C 5MIN J 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