





Drawing No.	*Rev.	Date	Page
BF3H25G-BNH-020mA	A	2016/04/25	1/3

# APPROVAL SHEET

Part No: **BF3H25G-BNH-020mA**

NOTE : **Green Part**

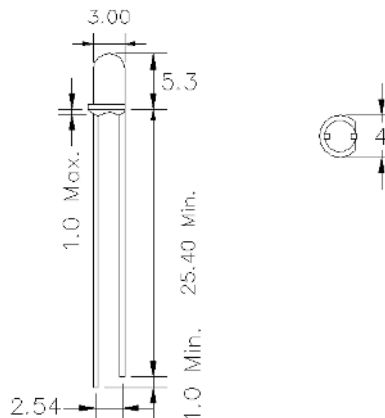
MAKER			CUSTOMER	
				
R&D	QA	Sales	Checked	Approved
				

Prepared	Checked	Approved
Rachel Lee	Hann Chiu	Kenneth Wu

## LED LAMP Technical Data

### DESCRIPTION:

Device Type	: BF3H25G-BNH-020mA
Dice Material	: InGaN
Light Color	: Blue
Lens Color	: Water Clear
Lens Dimension	: 3 mm



### Absolute Maximum Ratings at Ta=25°C

Parameter	Max.	Unit
DC Forward Current	20	mA
Reverse Voltage	5	V
Power Dissipation	80	mW
Operating Temperature	Topr : -30 ~ +80	°C
Storage Temperature	Tstr : -30 ~ +100	°C
Solder DIP (MAX. 5 seconds, 1.6mm from body) Temperature 260°C		

### Electrical and Optical Characteristics at Ta=25°C

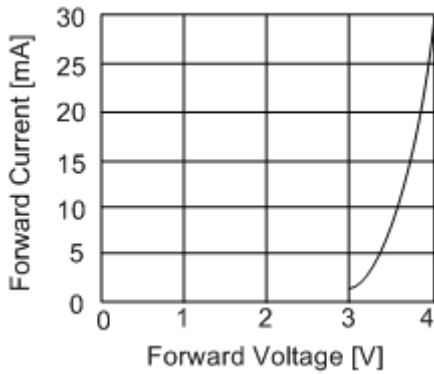
Symbol	Description	Test Condition	Min.	Typ.	Max.	Unit
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 20mA	-	3.5	4.0	V
I <sub>R</sub>	Reverse Current	V <sub>R</sub> = 5V	-	-	10	μA
λ <sub>D</sub>	Dom. Emission Wavelength	I <sub>F</sub> = 20mA	-	465	-	nm
Δλ	Spectral Line Halfwidth	I <sub>F</sub> = 20mA	-	15	20	nm
2θ 1/2	Viewing Angle	I <sub>F</sub> = 20mA	-	25	-	Deg.
I <sub>v</sub>	Luminous Intensity	I <sub>F</sub> = 20mA		2000	3250	mcd

- Note:
- 1.The lead should be formed up to 5mm from the body of device without forming stress.
  2. Soldering shall be performed after lead forming.
  3. All dimensions are in millimeters
  4. Static Electricity and surge damage the LED lamps.

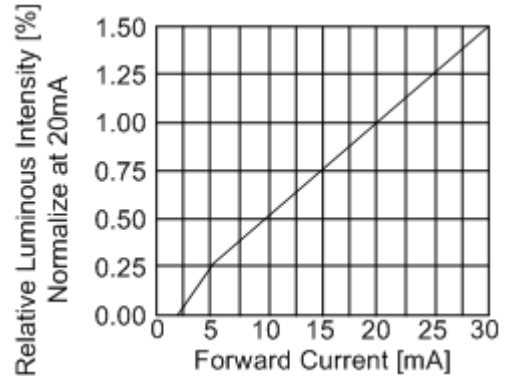
It is recommended to use a wrist band or anti-electrostatic glove when handing the LED lamp

## LED LAMP Technical Data

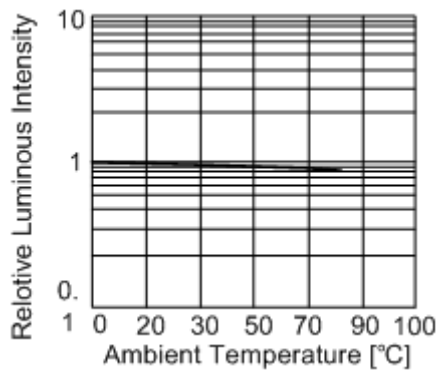
### Typical Optical-Electrical Characteristic Curves



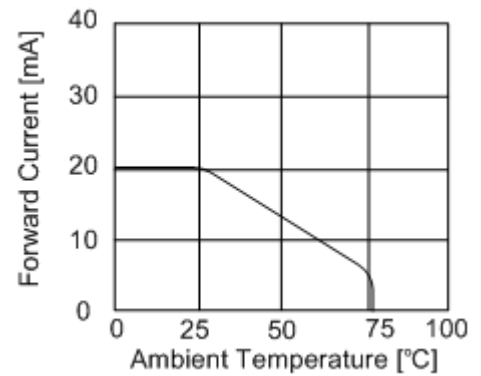
**Forward Current  
Vs. Forward Voltage**



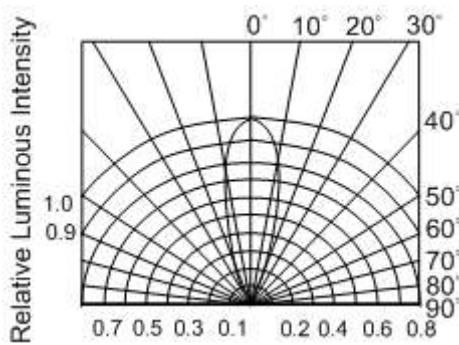
**Luminous Intensity  
Vs. Forward Current**



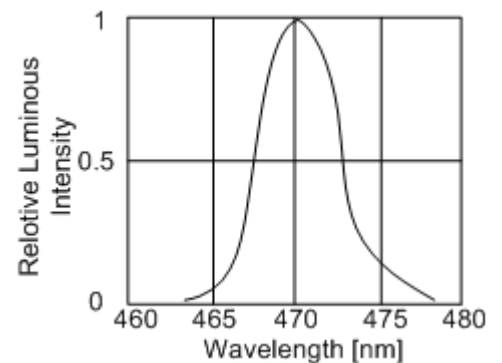
**Luminous Intensity  
Vs. Ambient Temperature**



**Forward Current  
Vs. Ambient Temperature**



**Radiation Pattern**



**Relative Luminous Intensity  
Vs. Wavelength**