




Drawing No.	*Rev.	Date	Page
BF3H75G-2AH-020mA	B	2022/05/05	1/3

# APPROVAL SHEET

Part No: **BF3H75G-2AH-020mA**

NOTE : Green Part

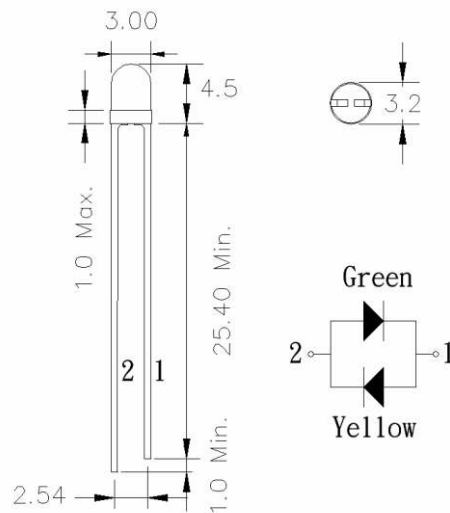
MAKER			CUSTOMER	
				
R&D	QA	Sales	Checked	Approved
				

Prepared	Checked	Approved
Rachel Lee	Sky Lin	Kenneth Wu

## 1LED LAMP Technical Data

### DESCRIPTION:

Device Type	: BF3H75G-2AH-020mA
Dice Material	: AlGaInP/ InGaN
Light Color	: Yellow-Green
Lens Color	: White Diffused
Lens Dimension	: 3mm



All epoxy resin dimension are in millimeter tolerance is  $\pm 0.2\text{mm}$

### Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Max.	Unit
DC Forward Current	20	mA
Reverse Voltage	5	V
Power Dissipation	50 / 80	mW
Operating Temperature	Topr : -40 ~ +80	$^\circ\text{C}$
Storage Temperature	Tstr : -40 ~ +100	$^\circ\text{C}$
Solder DIP (MAX. 5 seconds, 1.6mm from body) Temperature $260^\circ\text{C}$		

### Electrical and Optical Characteristics at $T_a=25^\circ\text{C}$ (Yellow)

Symbol	Description	Test Condition	Min.	Typ.	Max.	Unit
$V_F$	Forward Voltage	$I_F = 20\text{mA}$	1.8	2.1	2.5	V
$I_R$	Reverse Current	$V_R = 5\text{V}$	-	-	10	$\mu\text{A}$
$\lambda_D$	Dom. Emission Wavelength	$I_F = 20\text{mA}$	-	590	-	nm
$\Delta\lambda$	Spectral Line Halfwidth	$I_F = 20\text{mA}$	-	20	-	nm
$2\theta_{1/2}$	Viewing Angle	$I_F = 20\text{mA}$	-	75	-	Deg.
$I_v$	Luminous Intensity	$I_F = 20\text{mA}$	700	800	-	mcd

### Electrical and Optical Characteristics at $T_a=25^\circ\text{C}$ (Green)

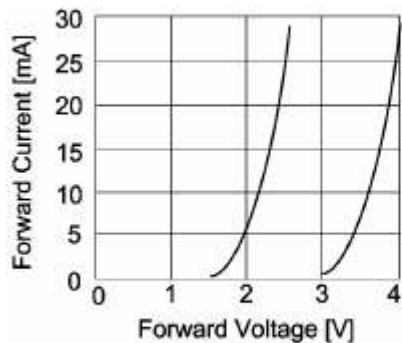
Symbol	Description	Test Condition	Min.	Typ.	Max.	Unit
$V_F$	Forward Voltage	$I_F = 20\text{mA}$	2.7	3.4	4.0	V
$I_R$	Reverse Current	$V_R = 5\text{V}$	-	-	10	$\mu\text{A}$
$\lambda_D$	Dom. Emission Wavelength	$I_F = 20\text{mA}$	-	520	-	nm
$\Delta\lambda$	Spectral Line Halfwidth	$I_F = 20\text{mA}$	-	20	-	nm
$2\theta_{1/2}$	Viewing Angle	$I_F = 20\text{mA}$	-	75	-	Deg.
$I_v$	Luminous Intensity	$I_F = 20\text{mA}$	700	1200	-	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.

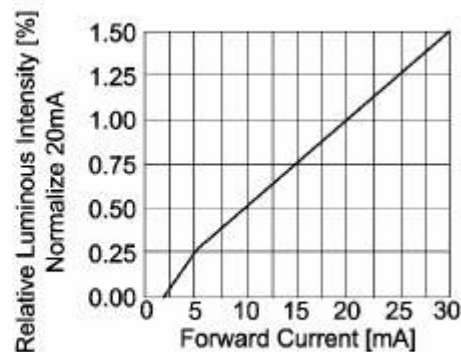
It is recommended to use a wrist band or anti-electrostatic glove when handing the LED lamp.

## LED LAMP Technical Data

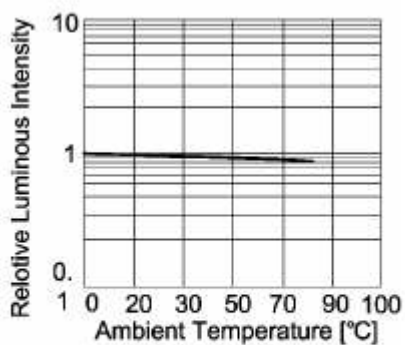
### Typical Optical-Electrical Characteristic Curves



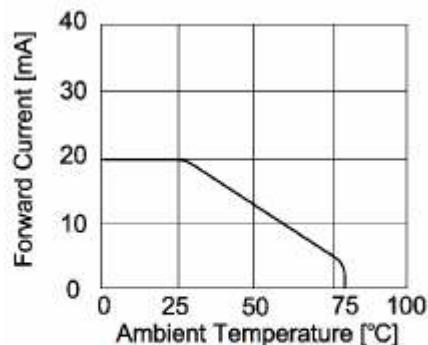
**Forward Current  
Vs. Forward Voltage**



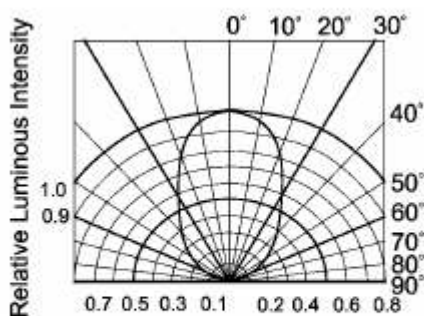
**Luminous Intensity  
Vs. Forward Current**



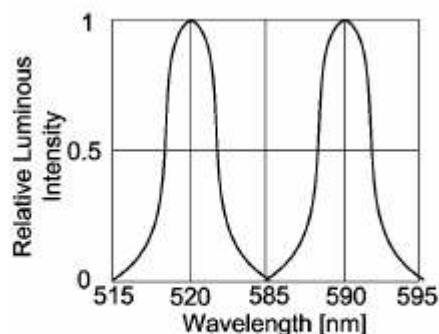
**Luminous Intensity  
Vs. Ambient Temperature**



**Forward Current  
Vs. Ambient Temperature**



**Radiation Pattern**



**Relative Luminous Intensity  
Vs. Wavelength**