





Drawing No.	*Rev.	Date	Page
BF3H20G-ZWR-020mA	A	2018/09/13	1/3

APPROVAL SHEET

Part No: **BF3H20G-ZWR-020mA**

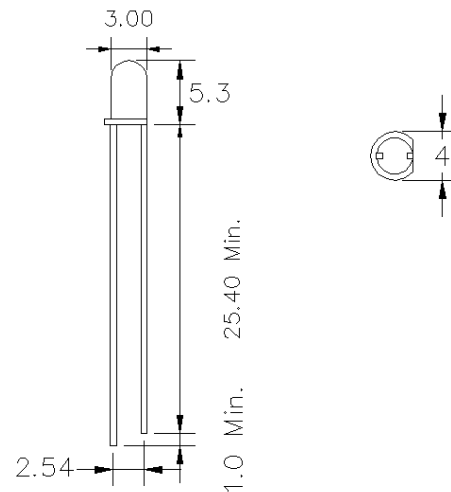
NOTE : **Green Part**

MAKER			CUSTOMER	
				
R&D	QA	Sales	Checked	Approved
				

Prepared	Checked	Approved
Rachel Lee	Hann Chiu	Kenneth Wu

DESCRIPTION:

Device Type : BF3H20G-ZWR-020mA
 Dice Material : InGaN
 Light Color : Warm White
 Lens Color : Water Clear
 Lens Dimension : 3 mm



Absolute Maximum Ratings at Ta=25°C

Parameter	Max.	Unit
Power Dissipation	95	mW
Reverse Voltage	5	V
Peak Forward Current(1/10 Duty Cycle @1KHz)	100	mA
Operating Temperature	Topr : -40 ~ +85	°C
Storage Temperature	Tstr : -40 ~ +100	°C
Solder DIP (MAX. 5 seconds, 1.6mm from body) Temperature 260°C		

Electrical and Optical Characteristics at Ta=25°C

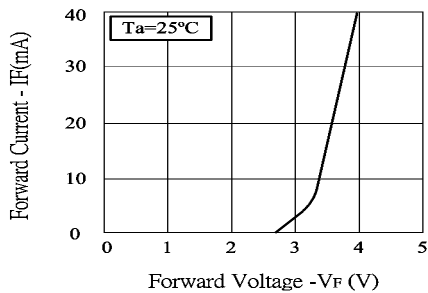
Symbol	Description	Test Condition	Min.	Typ.	Max.	Unit
V _F	Forward Voltage	I _F = 20mA	-	3.2	3.8	V
I _R	Reverse Current	V _R = 5V	-	-	10	μA
2θ _{1/2}	Viewing Angle	I _F = 20mA	-	20	-	Deg.
I _v	Luminous Intensity	I _F = 20mA	6000	9000	-	mcd

- 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

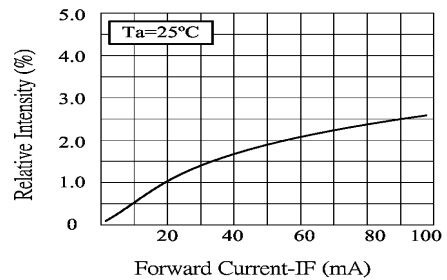
LED LAMP Technical Data

Typical Optical-Electrical Characteristic Curves

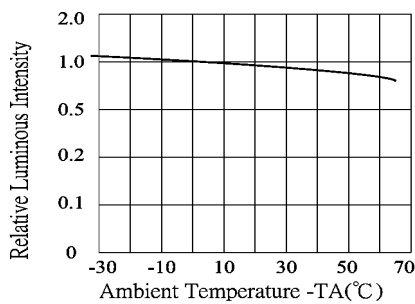
Forward Current Vs. Forward Voltage



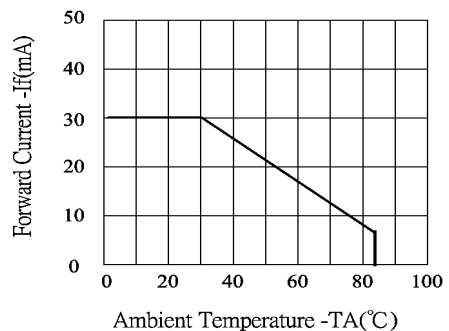
Luminous Intensity Vs. Forward Current



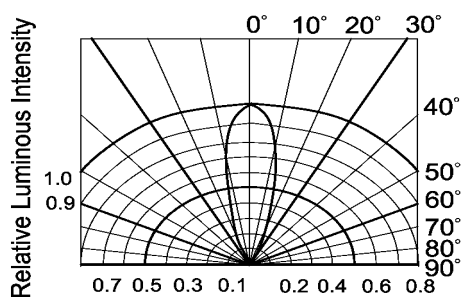
Luminous Intensity Vs. Ambient Temperature



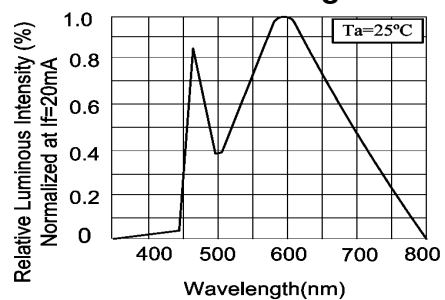
Forward Current Vs. Ambient Temperature



Radiation Pattern



Relative Luminous Intensity Vs. Wavelength



CHROMATICITY COORDINATES GRADIN

Rank	Chromaticity Coordinates				
A	X	0.364	0.377	0.384	0.370
	Y	0.351	0.365	0.350	0.336
B	X	0.377	0.389	0.398	0.384
	Y	0.365	0.378	0.364	0.350
C	X	0.389	0.402	0.411	0.398
	Y	0.378	0.392	0.379	0.364
D	X	0.402	0.414	0.425	0.411
	Y	0.392	0.405	0.393	0.379

*Tolerance X ±0.02