APPROVAL SHEET

Part No: BF5H30G-YHR-100mA

NOTE :

Green Part

MAKER			CUSTOMER	
SOLIDLITE				
R&D	QA	Sales	Checked	Approved

Prepared	Checked	Approved
Rachel Lee	Sky Lin	Kenneth Wu

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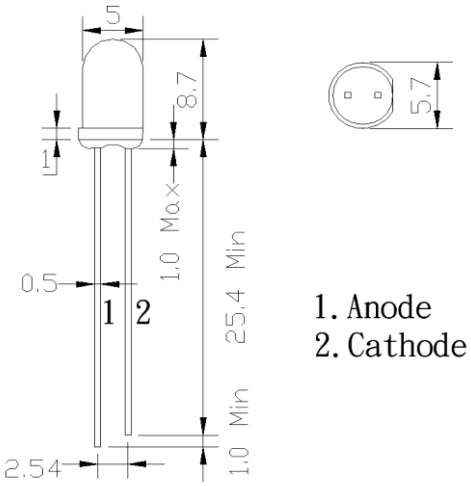
DESCRIPTION:

Device Type : BF5H30G-YHR-100mA
Dice Material : AlGaAs
Light Color : InfraRed 850nm
Lens Color : Water Clear
Lens Dimension : 5 mm



All epoxy resin dimension are in millimeter
tolerance is ±0.2mm

Absolute Maximum Ratings at Ta=25℃

Parameter	Max.	Unit
DC Forward Current	120	mA
Reverse Voltage	5	V
Power Dissipation	240	mW
Operating Temperature	Topr：-40 ~ +85	℃
Storage Temperature	Tstr：-40 ~ +100	℃
Solder DIP (MAX. 5 seconds, 1.6mm from body) Temperature 260℃		

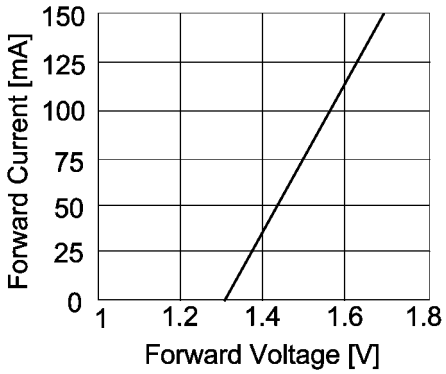
Electrical and Optical Characteristics at Ta=25℃

Symbol	Description	Test Condition	Min.	Typ.	Max.	Unit
V_F	Forward Voltage	I_F = 100mA		1.6	2.0	V
IR	Reverse Current	V_R = 5V	-	-	10	μA
λP	Peak Emission Wavelength	I_F = 100mA	-	850	-	nm
Δλ	Spectral Line Halfwidth	I_F = 100mA	-	40	-	nm
2θ□ 1/2	Viewing Angle	I_F = 100mA	-	30	-	Deg.
Po	Radiant Power	I_F = 100mA	70	120	-	mW

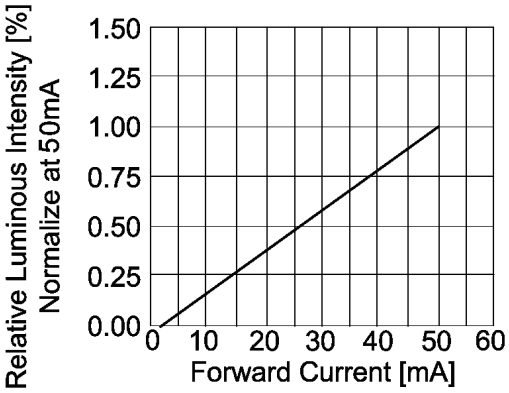
Note:
1.The lead should be formed up to 5mm from the body of device without forming stress.
2. Soldering shall be performed after lead forming.
3. All dimensions are in millimeters
4. Suggestion: the better current for this device is less than 80mA.

LED LAMP Technical Data

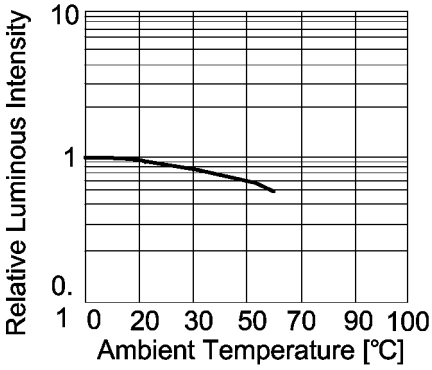
Typical Optical-Electrical Characteristic Curves



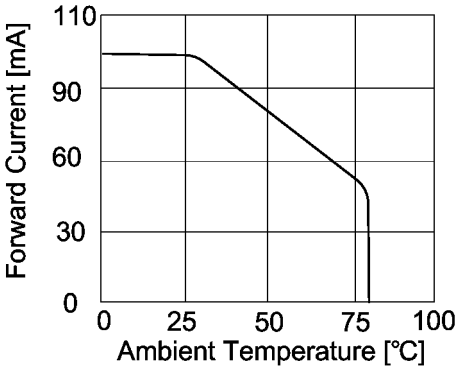
Forward Current
Vs. Forward Voltage



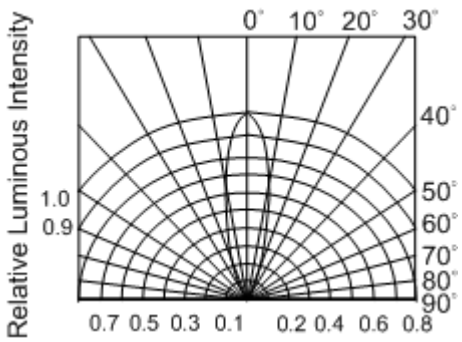
Luminous Intensity
Vs. Forward Current



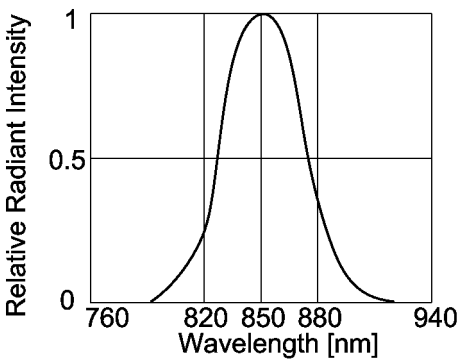
Luminous Intensity
Vs. Ambient Temperature



Forward Current
Vs. Ambient Temperature



Radiation Pattern



Relative Luminous Intensity
Vs. Wavelength

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