# APPROVAL SHEET

**Part No:** BF3H75G-ZIR

**NOTE :**

## Green Part

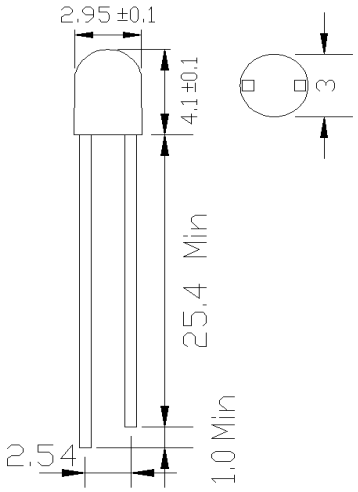
| MAKER | | | CUSTOMER | |
|---|---|---|---|---|
| SOLIDLITE | | | | |
| R&D | QA | Sales | Checked | Approved |
| | | | | |

| Prepared | Checked | Approved |
|---|---|---|
| Rachel Lee | Hann Chiu | Kenneth Wu |


No. 15, Sanmin S.Rd.,Fongshan Village, Hukou Township, Hsinchu County 303,Taiwan,R.O.C.

TEL:886-3-5986248 FAX:886-3-5986247 http://www.solidlite.com

# LED LAMP Technical Data




**DESCRIPTION:**

Device Type : BF3H75G-ZIR
Dice Material : AlGaAs
Emitting Wavelength : InfraRed
Lens Color : Water Clear
Lens Dimension : 3mm

**Absolute Maximum Ratings at Ta=25℃**

| Parameter | Max. | Unit |
|---|---|---|
| DC Forward Current | 100 | mA |
| Reverse Voltage | 5 | V |
| Power Dissipation | 180 | mW |
| Operating Temperature | Topr：-40 ~ +80 | ℃ |
| 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 | - | 1.4 | 1.8 | V |
| $I_R$ | Reverse Current | $V_R$ = 5V | - | - | 10 | μA |
| λp | Peak Emission Wavelength | $I_F$ = 100mA | - | 940 | - | nm |
| Δλ | Spectral Line Halfwidth | $I_F$ = 100mA | - | 50 | - | nm |
| 2θ 1/2 | Viewing Angle | $I_F$ = 100mA | - | 75 | - | Deg. |
| Ie | Radiant Intensity | $I_F$ = 100mA | 13 | 20 | - | mW/sr |

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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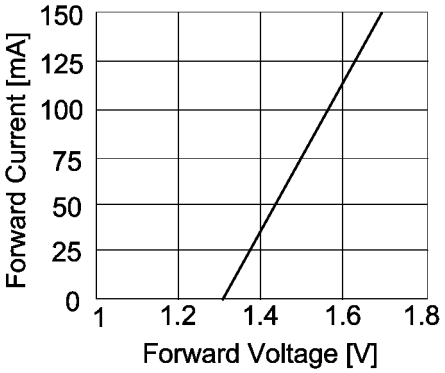
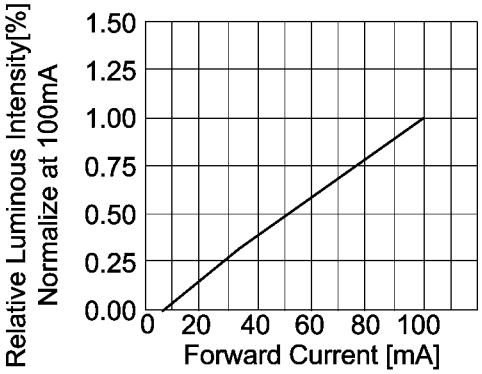
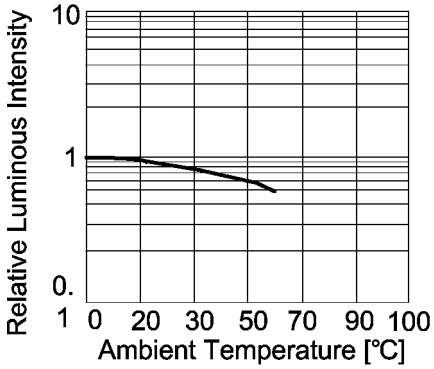
## Typical Optical-Electrical Characteristic Curves



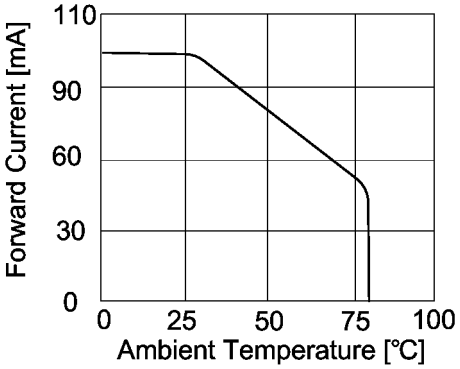

**Forward Current Vs. Forward Voltage**



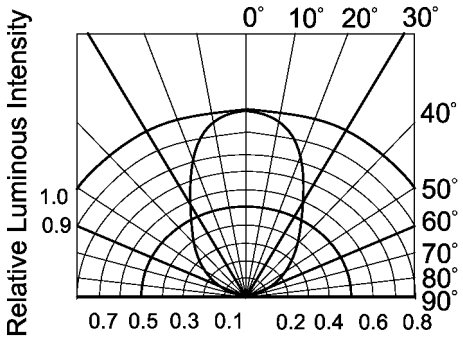

**Luminous Intensity Vs. Forward Current**



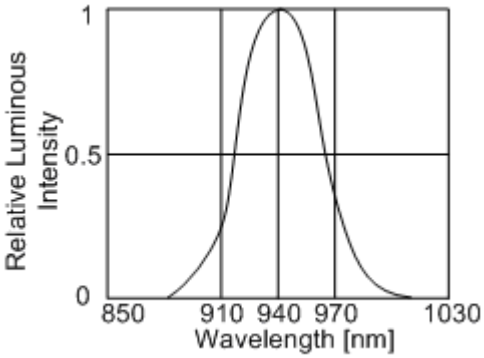

**Luminous Intensity Vs. Ambient Temperature**




**Forward Current Vs. Ambient Temperature**




**Radiation Pattern**




**Relative Luminous Intensity Vs. Wavelength**