# APPROVAL SHEET

**Part No:** BF3H40G-2AM-010mA

**NOTE :**

**Green Part**

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

| Prepared | Checked | Approved |
|---|---|---|
| Rachel Lee | Sky Lin | Kenneth Wu |


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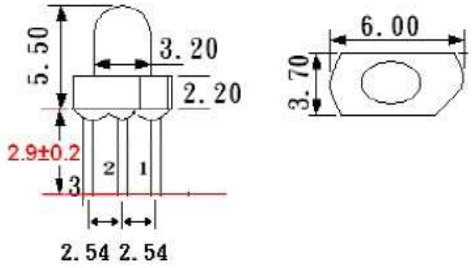
# LED LAMP Technical Data

**DESCRIPTION:**

Device Type ：BF3H40G-2AM-010mA
Dice Material ：AlGaInP/GaAs
Light Color ：Red-Yellow-Green
Lens Color ： White diffused
Lens Dimension ： 3mm




1. RED
2. Command Cathode
3. Yellow Green

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

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

| Parameter | Max. | Unit |
|---|---|---|
| DC Forward Current | 20 | mA |
| Reverse Voltage | 5 | V |
| Power Dissipation | 45 | mW |
| Operating Temperature | Topr：-30 ~ +80 | ℃ |
| Storage Temperature | Tstr：-30 ~ +100 | ℃ |
| Solder DIP (MAX. 5 seconds, 1.6mm from body) Temperature 260℃ | | |

**Electrical and Optical Characteristics at Ta=25℃ (Red)**

| Symbol | Description | Test Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| $V_F$ | Forward Voltage | $I_F$ = 10mA | | 2.0 | 2.6 | V |
| $I_R$ | Reverse Current | $V_R$ = 5V | - | - | 10 | μA |
| $\lambda_D$ | Dom. Emission Wavelength | $I_F$ = 10mA | | 640 | | nm |
| Δλ | Spectral Line Halfwidth | $I_F$ = 10mA | - | 20 | | nm |
| 2θ 1/2 | Viewing Angle | $I_F$ = 10mA | - | 40 | - | Deg. |
| $I_V$ | Luminous Intensity | $I_F$ = 10mA | 10 | | 40 | mcd |

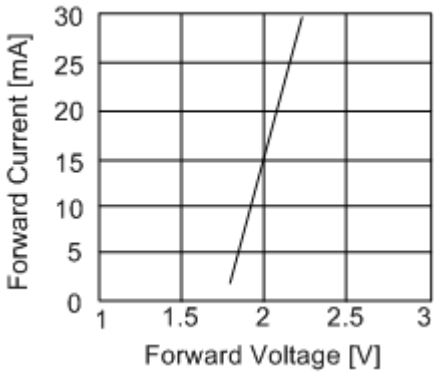
**Electrical and Optical Characteristics at Ta=25℃ (Yellow green)**

| Symbol | Description | Test Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| $V_F$ | Forward Voltage | $I_F$ = 10mA | | 2.0 | 2.6 | V |
| $I_R$ | Reverse Current | $V_R$ = 5V | - | - | 10 | μA |
| $\lambda_D$ | Dom. Emission Wavelength | $I_F$ = 10mA | - | 570 | - | nm |
| Δλ | Spectral Line Halfwidth | $I_F$ = 10mA | - | 20 | | nm |
| 2θ 1/2 | Viewing Angle | $I_F$ = 10mA | - | 40 | - | Deg. |
| $I_V$ | Luminous Intensity | $I_F$ = 10mA | 10 | | 40 | mcd |

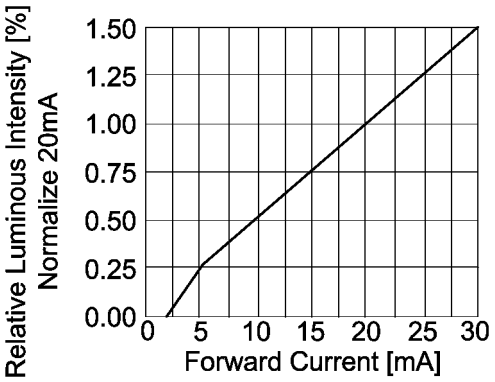
Note: 1.The lead should be formed up to 5mm from the body of device without forming stress.
2. Soldering shall be performed after lead forming.
3. All dimensions are in millimeters

# LED LAMP Technical Data

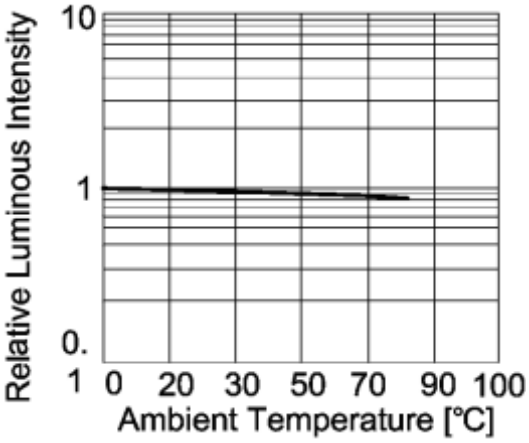
## Typical Optical-Electrical Characteristic Curves



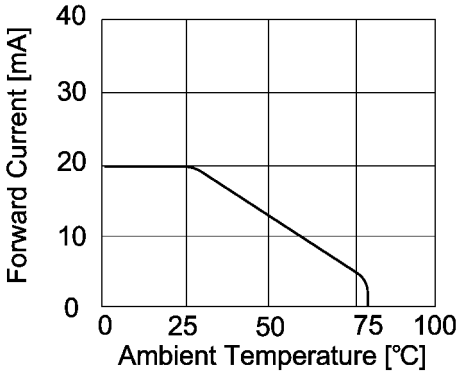

**Forward Current Vs. Forward Voltage**



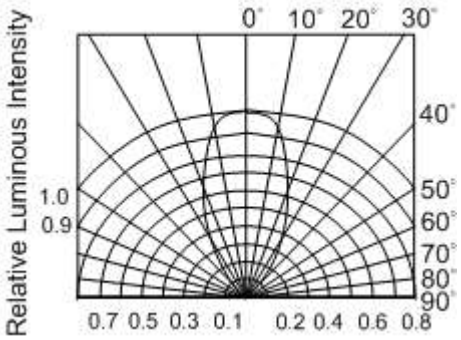

**Luminous Intensity Vs. Forward Current**



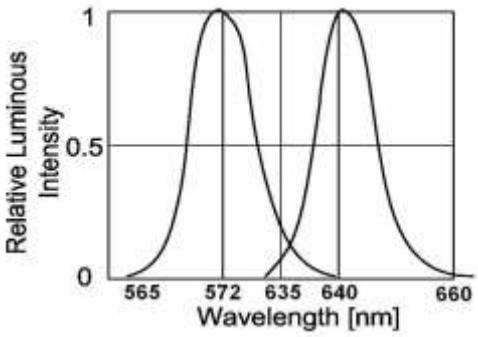

**Luminous Intensity Vs. Ambient Temperature**




**Forward Current Vs. Ambient Temperature**




**Radiation Pattern**




**Relative Luminous Intensity Vs. Wavelength**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