# APPROVAL SHEET

**Part No:** BF5A04GA-NPD

**NOTE :**

## Green Part

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

| Prepared | Checked | Approved |
|---|---|---|
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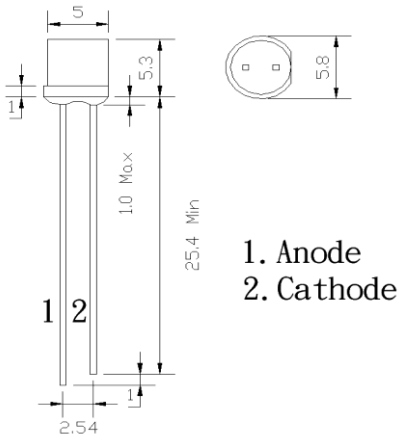
## DESCRIPTION:

Device Type : BF5A04GA-NPD
Dice Material : Silicon
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 | Symbol | Rating. | Unit |
|---|---|---|---|
| Power Dissipation | $P_C$ | 100 | 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℃

| Description | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Range of Spectral Bandwidth | Wp | - | 400 | - | 670 | nm |
| Peak Sensitivity Wavelength | Wp | - | - | 630 | - | nm |
| Reverse Light Current | $I_L$ | $V_R$=5V.Ee=1mW/ c ㎡ | - | 10 | - | uA |
| Reverse Dark Current | $I_D$ | $V_R$ =10V.Ee=0mW/ c㎡ | - | 2 | 10 | nA |
| Reverse breakdown voltage | $V_{BR}$ | $I_R$=100uA.Ee=0mW/ c㎡ | 35 | - | - | V |
| Open-Circuit Voltage | $V_{OC}$ | Ee=5mW/cm2 λp=940nm | - | 0.35 | - | V |
| Short- Circuit Current | $I_{SC}$ | Ee=1mW/cm2 λp=940nm | - | 40 | - | μA |
| Rise Time/ Fall Time | $t_r$ / $t_f$ | $V_R$=10V $R_L$=1KΩ | - | 45 / 45 | - | ns |
| Total Capacitance | $C_t$ | $V_R$ =5V Ee=0mW/c㎡ f=1MHz | - | 25 | - | pF |

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