# JH-323CG4F38

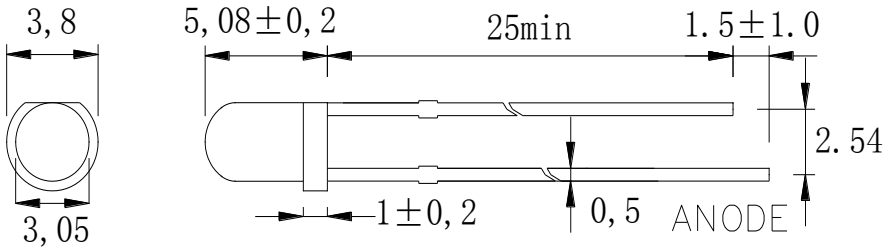
## Lamp LED

| Part Number | Chip | | Lens Color |
|---|---|---|---|
| | Material | Source Color | |
| JH-323CG4F38 | InGaN | Green | Water Clear |


## Features

- High brightness green LED round package
- Light output intendity grade Viewing angle 30 degree
- Epoxy lens color.Water Clear
- RoHS compliant

## Dimensions




Notes:

1. All dimensions are in millimeters.
2. Tolerance is ±0.25mm unless otherwise noted.

## Absolute Maximum Rating @ Ta=25°C

| Parameter | Symbol | Maximum Rating | Unit |
|---|---|---|---|
| Continuous Forward Current | IF | 20 | mA |
| Peak Forward Current<br>(1/10 Duty Cycle, 0.1ms Pulse Width) | IFp | 50 | mA |
| Reverse Voltage | VR | 5 | V |
| Power Dissipation | PD | | mW |
| Electrostatic discharge | ESD | 1000 | V |
| Operating Temperature Range | TOPR | -25°C to +85°C | |
| Storage Temperature Range | TSTG | -35°C to +105°C | |
| Lead Soldering Temperature<br>(3mm from tne base of the epoxy bulb) | TSOL | 360°C | |

## Electrical / Optical Characteristic @ Ta=25°C

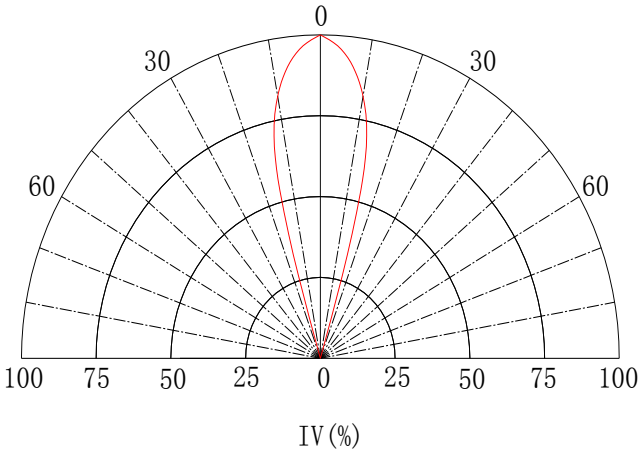
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|---|---|---|---|---|---|---|
| Forward Voltage | VF | 2.8 | 3.0 | 3.4 | V | $I_F$=20mA |
| Light intensity | Iv | 4000 | 14000 | | mcd | $I_F$=20mA |
| Dominant Wavelength | λd | 520 | 525 | 530 | nm | $I_F$=20mA |
| Reverse Current | IR | 0 | | 1 | μA | $V_R$=5V |
| Viewing Angle | 2θ1/2 | | 30 | | deg | $I_F$=20mA |
| Recommend Forward Current | IF(rec) | | | 20 | mA | |

tolerance of measurement of forward voltage±0.1V

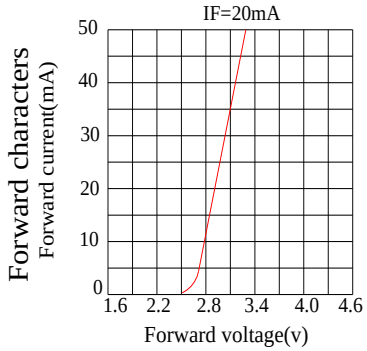
## Typical Electrical / Optical Character Curves

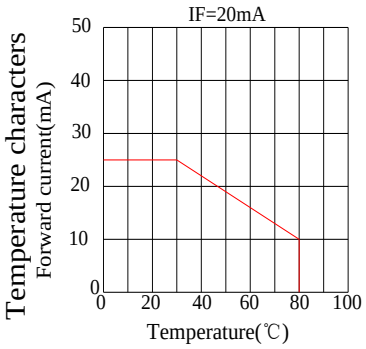
( 25 ° Ambient Temperature Unless Otherwise Noted )

### Spotial Disttrbution




### Typical electrical-optical Characteristics curvers



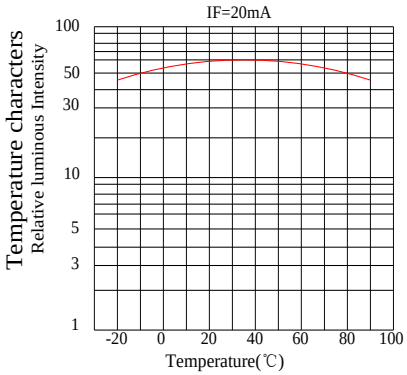



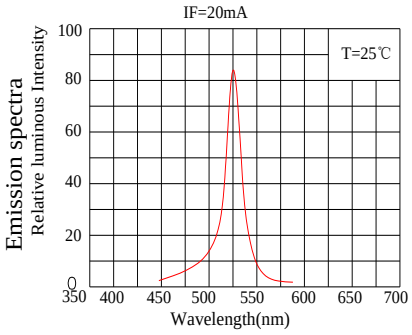

**Notes:**

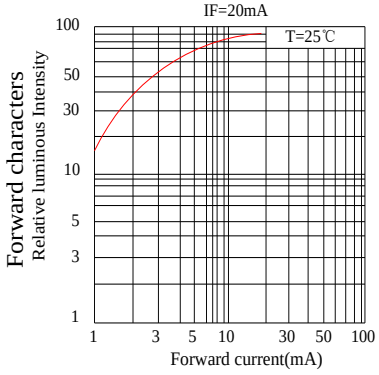
The data are an typical presenlation of the product,Contact customer service for details of technical information and warranty.

The product is sensitive to static antistatic operation environment is recommended

Products are shipped in either bulk bag package or taping.



## Reliability Tests

| Type | Test Item | REF Standard | Test Condition | Note | Number of Damaged |
|---|---|---|---|---|---|
| Environmental Sequence | Temperature Cycle | JIS C 7021 (1997)A-4 | -20°C*30mins~25°C *5mins~ 80°C * 30mins | 100 cycles | 0/100 |
| | High Humidity Heat Cycle | JIS C 7021 (1997)A-5 | 30°C→65°C, RH= 90% 24hrs/1cycle | 10 cycles | 0/100 |
| | High Temperature Storage | JIS C 7021 (1997)B-10 | Ta= 80°C | 1000h | 0/100 |
| | Humidity Heat Storage | JIS C 7021 (1997)B-11 | Ta=60°C RH=90% | 1000h | 0/100 |
| | Low Temperature Storage | JIS C 7021 (1997)B-12 | Ta= -30°C | 1000h | 0/100 |
| Operation Sequence | DC Operating Life | JIS C 7035 (1985) | Ta= 25°C, IF=20mA | 1000h | 0/100 |
| | High Humidity Heat Life Test | * | Ta=60°C RH=90% IF=20mA | 500h | 0/100 |
| | Low Temperature Life Test | * | Ta= -20°C, IF=20mA | 1000h | 0/100 |
| Destructive Sequence | Resistance to Soldering Heat | JIS C 7021 (1997)A-11 | Tsol=260±5℃,10sec (3mm from the base of the epoxy bulb) | 1 time | 0/20 |
| | Solderability | JIS C 7021 (1997)A-2 | Tsol=235 ±5℃,5sec (Using flux) | 1 time (over 95%) | 0/20 |
| | Lead Pull/Bend Test | JIS C 7021 (1997)A-11 | Load 2.5N (0.25kgf) 0° → 90° →0° Bending 3 times | No noticeable damage | 0/20 |

*Refer to reliability test standard specification for in this line.