BRIGHTEK

BRIGHTEK (EUROPE) LIMITED

Brighten Up The World With LED !

ISO/TS 16949:2009 BS EN ISO 14001:2004 QC 080000 IECQ HSPM

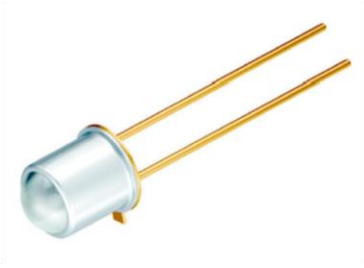
# PRODUCT DATASHEET



- ► TO-Can Package
- ► 4.7mm Round 6.35t
- ► UV (270~285nm)

N0Q52L84

Release Date: 11 September 2020 Version: A1.0



TO-Can Series

## TO-Can Series

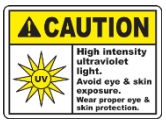
RoHS Compliant

### FEATURES:

- **Package:** TO-Can Package Top View
- **Forward Current:** 20mA
- **Forward Voltage (typ.):** 6.5V
- **Radiant Power (typ.):** 2mW@20mA
- **Colour:** Ultraviolet (UV)
- **Wavelength:** 270~285nm
- **Viewing angle:** 6°
- **Operating Temperature:** -10~+85°C
- **Storage Temperature:** -40~+85°C

### APPLICATIONS:

- Disinfection
- Sterilization
- Bio-Analysis
- Detection
- Sensor Light
- Fluorescent Spectroscopy

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## CHARACTERISTICS:

### Absolute Maximum Characteristics (Ta=25°C)

| Parameter | Symbol | Ratings | Unit |
|---|---|---|---|
| Maximum Forward Current | $I_{MAX}$ | 20 | mA |
| Junction Temperature | $T_J$ | 85 | °C |
| Operating Temperature | $T_{OPT}$ | -10~+85 | °C |
| Storage Temperature | $T_{STG}$ | -40~+85 | °C |

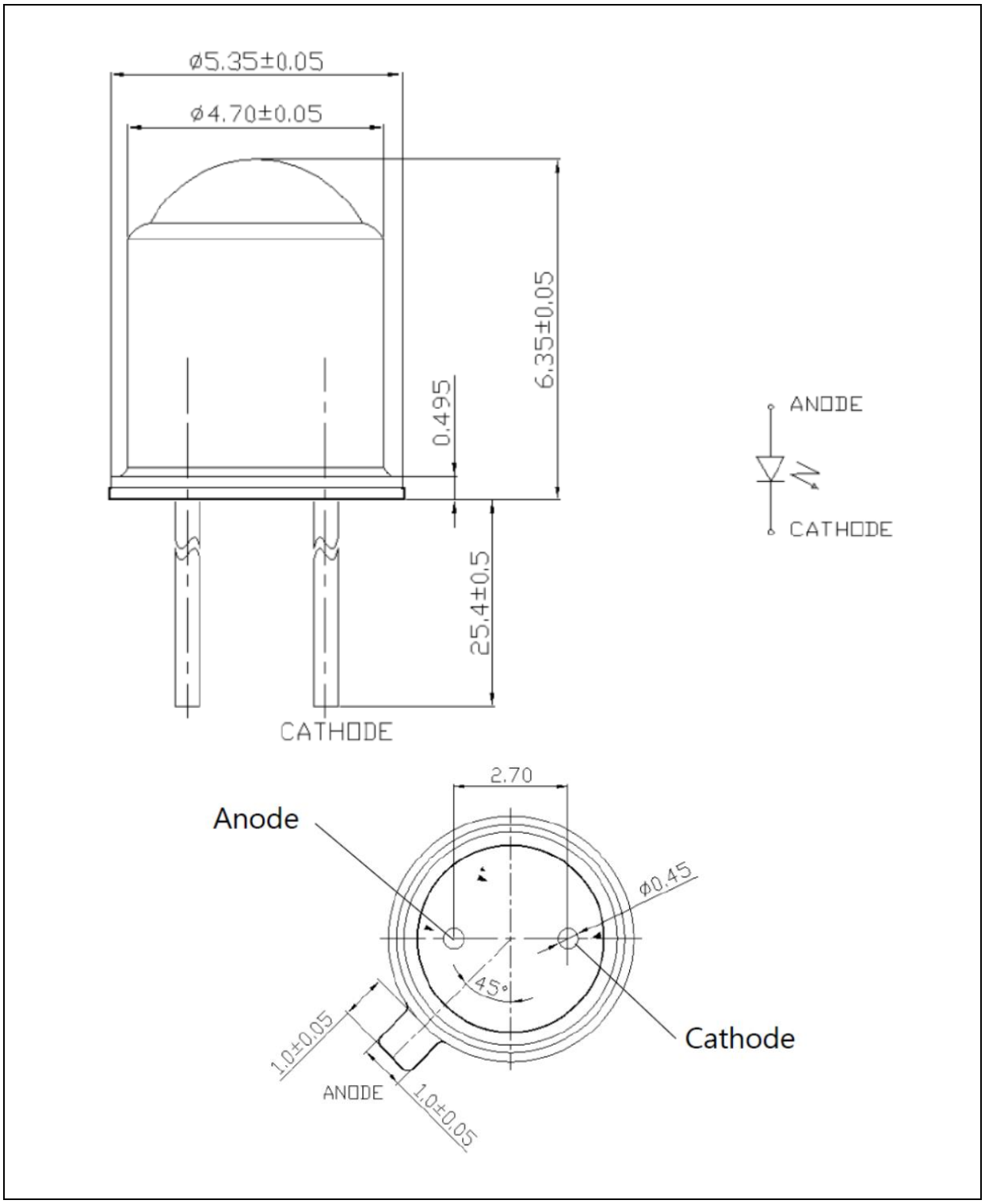
### Electrical & Optical Characteristics (Ta=25°C)

| Parameter | Symbol | Values | | | Unit | Test Condition |
|---|---|---|---|---|---|---|
| | | Min. | Typ. | Max. | | |
| Forward Voltage | $V_F$ | 5.0 | --- | 8.0 | V | $I_F$=20mA |
| Radiant Power | $P_O$ | 1 | --- | 3 | mW | $I_F$=20mA |
| Wavelength | $W_P$ | 270 | --- | 285 | nm | $I_F$=20mA |
| Viewing Angle | $2\theta_{1/2}$ | --- | 6 | --- | deg | $I_F$=20mA |

1. Radiant Power ($P_O$) ±10%, Forward Voltage ($V_F$) ±0.2V, Viewing angle($2\theta_{1/2}$) ±10°, Wavelength (nm) ±2nm

## OUTLINE DIMENSION:

Package Dimension:




1. All dimensions are in millimetre (mm).
2. Tolerance ±0.13mm, unless otherwise noted.

# PRECAUTIONS OF USE:

## Storage:

It is recommended to store the products in the following conditions:

- Humidity: 60% R.H. Max.
- Temperature: 5°C~30°C (41°F ~86°F).

Shelf life in sealed bag: 12 months at 5°C~30°C and <60% R.H.

Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a damp-proof box with descanting agent <10% R.H. and apply baking before use.

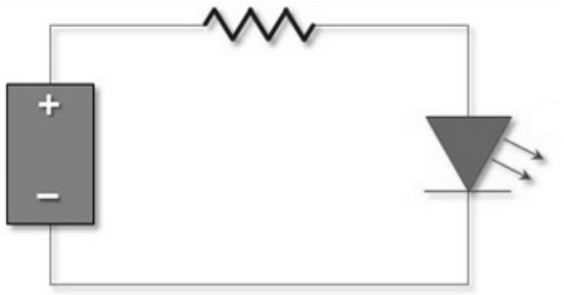
## Baking:

It is recommended to bake the LED before soldering if the pack has been unsealed for longer than 24hrs. The suggested baking conditions are as followings:

- 60±3°C x 12hrs and <5%RH, taped / reel package.

It's normal to see slight color fading of carrier (light yellow) after baking in process.

## Testing Circuit:




Must apply resistor(s) for protection (over current proof).

## Cleaning:

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED carrier / package. Avoid putting any stress force directly on to the LED lens.

## ESD (Electrostatic Discharge):

Static Electricity or power surge will damage the LED. Use of a conductive wrist band or anti-electrosatic glove is recommended when handing the LED all time. All devices, equipment, machinery, work tables, and storage racks must be properly grounded.

In the events of manual working in process, make sure the devices are well protected from ESD at any time.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## REVISION RECORD:

| Version | Date | Summary of Revision |
|---|---|---|
| A1.0 | 11/09/2020 | Datasheet set-up. |