

ULTRAVIOLET

LIGHT

WEAR EYE

PROTECTION



PRODUCT DATASHEET



- TO-Can TO-46
- ▶ 4.7mm Round 3.6t
- ► UV (365~370nm)





N0Q61T37

APPLICATIONS:

- Disinfection
- Sterilization
- Bio-Analysis
- Detection

1

- Sensor Light
- Fluorescent Spectroscopy

TO-Can Series



FEATURES:

- Package: TO-Can TO-46 Package Top View
- Forward Current: 50~150mA
- Forward Voltage (typ.): 3.7V
- Radiant Power (typ.): 20mW@50mA
- Colour: Ultraviolet (UV)
- Peak Wavelength: 365~370nm
- Viewing Angle: 120°
- **Operating Temperature:** -10~+100°C
- Storage Temperature: -40~+100°C





Absolute Maximum Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Maximum Forward Current	Imax	150	mA
Peak Forward Current (D=0.01s, Duty 1/10)	IFP	200	mA
Junction Temperature	Τı	125	°C
Reverse Current	IR	10	μΑ
Reverse Voltage	V _R	5	V
Operating Temperature	Торт	-10~+100	°C
Storage Temperature	T _{STG}	-40~+100	°C

Electrical & Optical Characteristics (Ta=25°C)

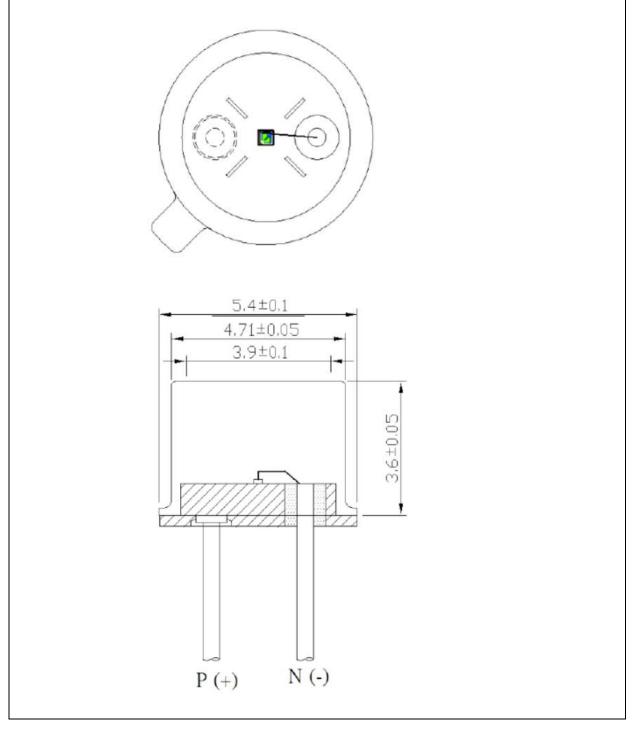
Parameter	Symbol	Values			Unit	Test
		Min.	Тур.	Max.	Unit	Condition
Forward Voltage	VF	3.5		4.0	V	I _F =50mA
Radiant Power	Po	5		35	mW	I _F =50mA
Wavelength	Wp	365		370	nm	I⊧=50mA
Viewing Angle	2θ _{1/2}		120		deg	I⊧=50mA

1. Radiant Power (P_0) ±10%, Forward Voltage (V_F) ±0.2V, Viewing angle($2\theta_{1/2}$) ±10°, Wavelength (nm) ±2nm





Package Dimension:



1. All dimensions are in millimetre (mm).

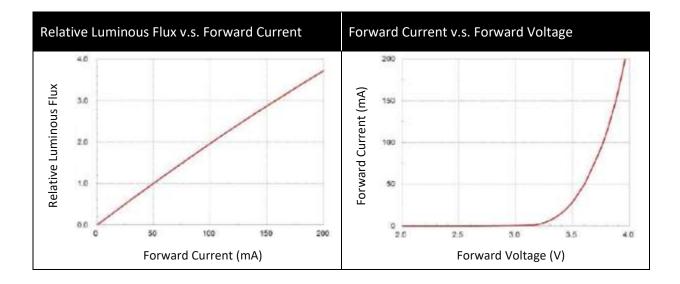
3

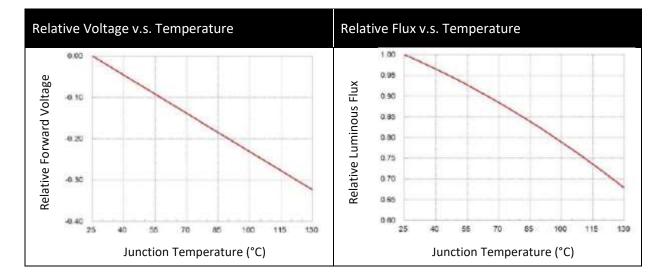
2. Tolerance ±0.13mm, unless otherwise noted.

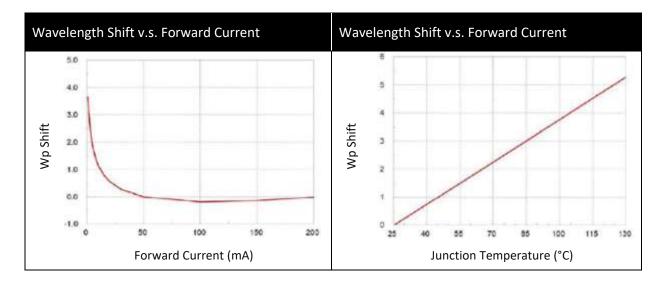




ELECTRO-OPTICAL CHARACTERISTICS:







4





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.

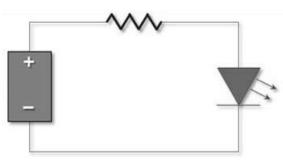
Baking:

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.





VersionDateSummary of RevisionA1.011/11/2019Datasheet set-up.A1.112/09/2023New datasheet format.