









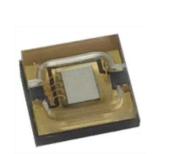
PRODUCT DATASHEET



- ▶ Ceramic SMD
- ➤ 3639 1.21t Series
- ► Royal Blue (454nm)

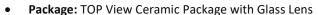
N0B62S32





3639 1.21t Series

FEATURES:



Forward Current: 1400~3000mA Forward Voltage (typ.): 3.2V

3639 1.21t Series

Radiant Power (typ.): 2060mW@1400mA

Colour: Royal Blue Wavelength: 454nm Viewing angle: 120°

Materials:

Resin: Glass (Water Clear) L/T Finish: Au plated

Operating Temperature: -40~+85°C Storage Temperature: -40~+105°C

Grouping parameters:

- Forward Voltage
- **Radiant Power**
- **Dominant Wavelength**
- Soldering methods: Reflow
- Preconditioning: MSL3 according to J-STD020
- Packing: 12mm tape with max.500pcs/reel, ø178mm (7")

APPLICATIONS:

- **Decorative Lighting**
- Portable Lighting
- **Outdoor Lighting**
- **Commercial Lighting Architectural Lighting**
- Pool and Fountain Light



CHARACTERISTICS:

Absolute Maximum Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
DC Forward Current	l _F	3000	mA
Pulse Forward Current Width≤100μs, Duty cycle≤1/10	IFP	4500	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	150	°C
Electrostatic Discharge (HBM: MIL-STD-883 C 2)	ESD	6000	V
Operating Temperature	T _{OPR}	-40~+85	°C
Storage Temperature	T _{STG}	-40~+105	°C
Soldering Temperature (10S)	T _{SOL}	230 or 260 for 10S	°C

Electrical & Optical Characteristics (Ta=25°C)

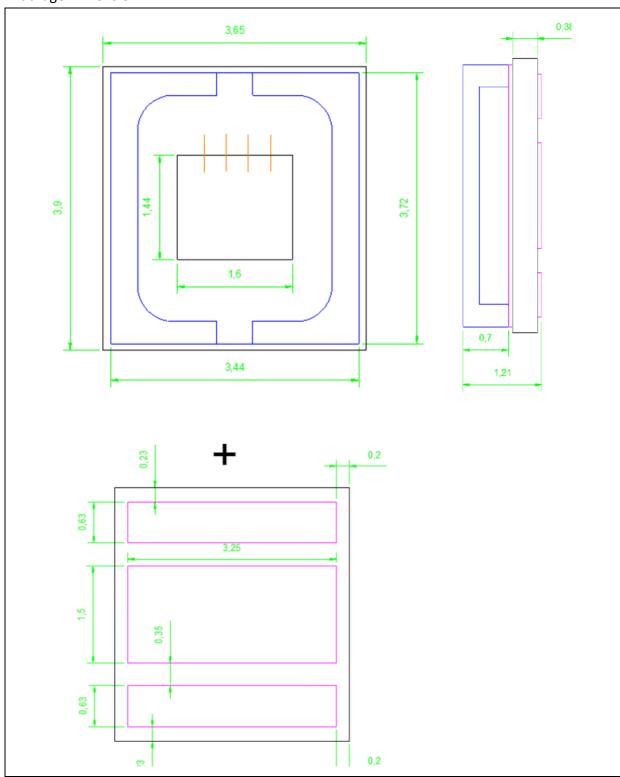
Parameter	Symbol	Values			Unit	Test
		Min.	Тур.	Max.	Onit	Condition
Forward Voltage	V_{F}		3.2		V	I _F =1400mA
Radiant Power	Фе		2060		mW	I _F =1400mA
Dominant Wavelength	λ_{D}		454		nm	I _F =1400mA
Viewing Angle	2θ _{1/2}		120		deg	I _F =1400mA

^{1.} Luminous flux (Φ_V) ±7%, Forward Voltage (V_F) ±0.05V, Viewing angle($2\theta_{1/2}$) ±10°



OUTLINE DIMENSION:

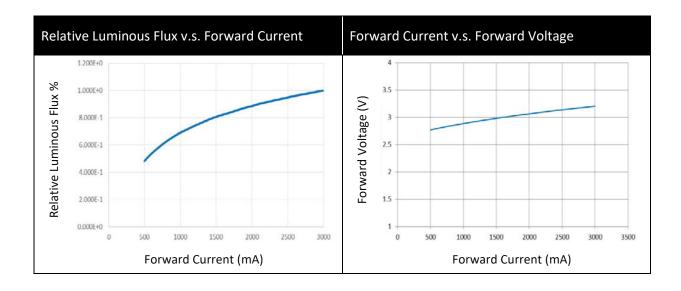
Package Dimension:

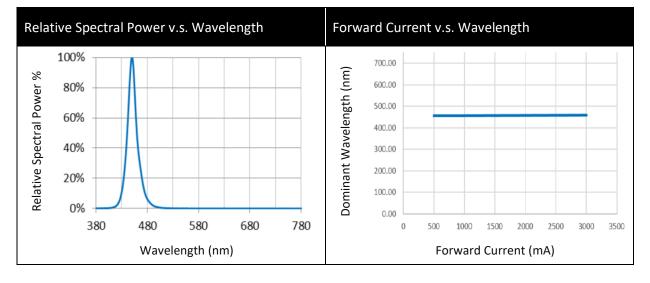


- 1. All dimensions are in millimetre (mm).
- 2. Tolerance ±0.13mm, unless otherwise noted.



ELECTRO-OPTICAL CHARACTERISTICS:

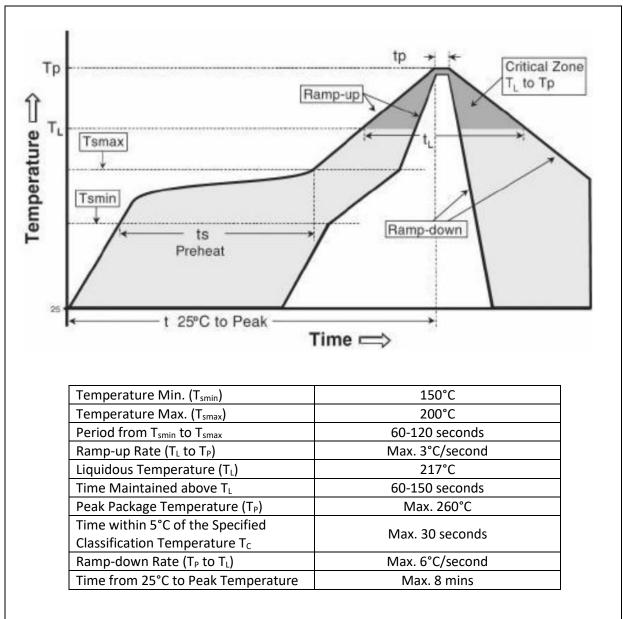






RECOMMENDED SOLDERING PROFILE:

Reflow Lead-free Solder:



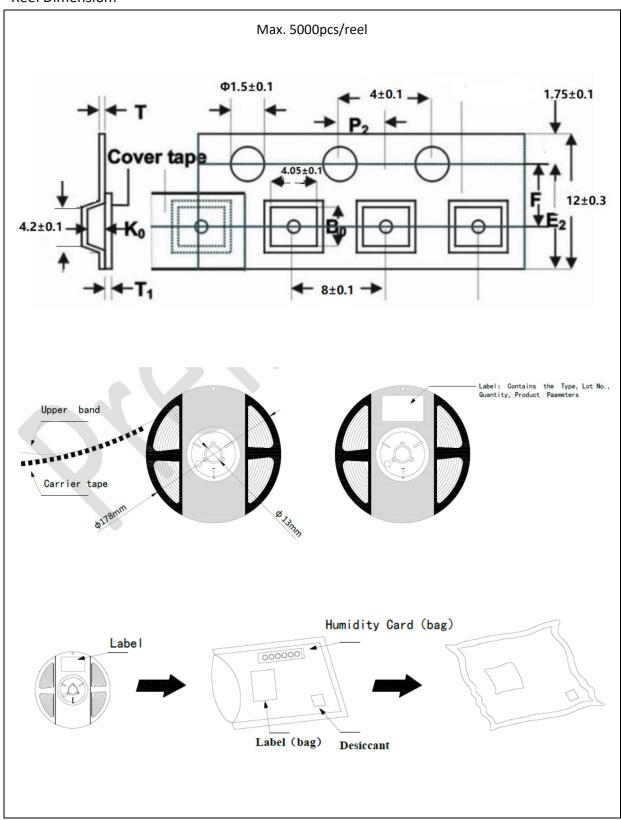
Note:

- 1. Maximum reflow soldering: 2 times.
- 2. Before, during, and after soldering, should not apply stress on the components and PCB board.
- 3. Recommended soldering temperature: 230°C. The maximum soldering temperature should be limited to 260°C for max. 10seconds.



PACKING SPECIFICATION:

Reel Dimension:





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.

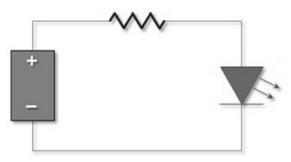
Baking:

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 24hrs 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.



REVISION RECORD:

Version	Date	Summary of Revision
A1.0	06/09/2022	Datasheet set-up.