













- ► PTH Lamp
- ▶ 5mm Round 8.7t
- ▶ Blue (467nm)

N0B26L55 (Bulk) N0B26L55T (Taping)





FEATURES:

Package: Blue Diffused 5mm Round PTH Lamp

Forward Current: 20mA Forward Voltage (typ.): 3.2V

5mm Lamp 8.7t

Luminous Intensity (typ.): 1200mcd

Colour: Blue

Wavelength: 467nm Viewing angle: 35°

Materials:

Die: InGaN

Resin: Epoxy (Blue Diffused)

L/F Finish: Ag Plating

Operating Temperature: -40~+85°C Storage Temperature: -40~+100°C

Grouping parameters:

Forward voltage

Luminous intensity

Wavelength

Soldering methods: Hand; Wave soldering

Preconditioning: acc. to JEDEC Level 3

Packing: 500pcs/Bulk; 2000pcs/Taping

5 mm Lamp 8.7 t

APPLICATIONS:

- Indicator
- **Indoor Lighting**
- **Decorative Lighting**
- **Consumer Goods**
- Switch
- Display

Release Date: 04 February 2016 Version: A1.0



CHARACTERISTICS:

Absolute Maximum Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	I _F	30	mA
Peak Forward Current Duty 1/10, width 0.1ms	I _{FP}	100	mA
Reverse Voltage	V_R	5	V
Reverse Current @5V	I _R	10	μΑ
Power Dissipation	P _D	100	mW
Electrostatics Discharge (HBM)	ESD	1000	V
Operating Temperature	T _{OPR}	-40~+85	°C
Storage Temperature	T _{STG}	-40~+100	°C
Junction Temperature	T _j	110	°C

Electrical & Optical Characteristics (Ta=25°C)

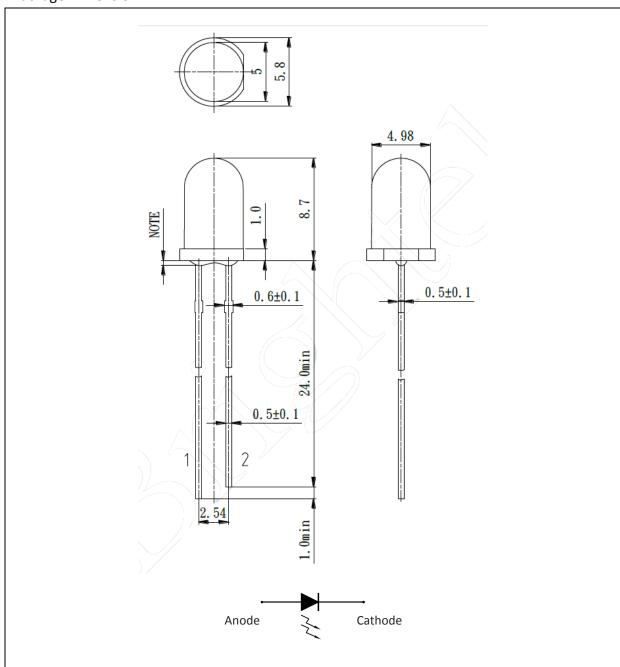
Parameter	Symbol	Values			Unit	Test
raidilletei	Зуппоот	Min.	Тур.	Max.	Offic	Condition
Forward Voltage	V_{F}	2.8	3.2	3.6	V	I _F =20mA
Luminous Intensity	I _V	780	1200	2200	mcd	I _F =20mA
Dominant Wavelength	$\lambda_{\scriptscriptstyle D}$	462.5	467	472.5	nm	I _F =20mA
Viewing Angle	2θ _{1/2}		35		deg	I _F =20mA

^{1.} Luminous Intensity (I_V) $\pm 10\%$, Forward Voltage (V_F) ± 0.1 V, Dominant Wavelength (λ_D) ± 1 nm



OUTLINE DIMENSION:

Package Dimension:



- 1. All dimensions are in millimetre (mm).
- 2. Tolerance ±0.3mm, unless otherwise noted.



BINNING GROUPS:

Forward Voltage Classifications (I_F = 20mA):

Code	Min.	Max.	Unit
В	2.8	3.0	
С	3.0	3.2	V
D	3.2	3.4	V
E	3.4	3.6	

Radiant Intensity Classifications ($I_F = 20mA$):

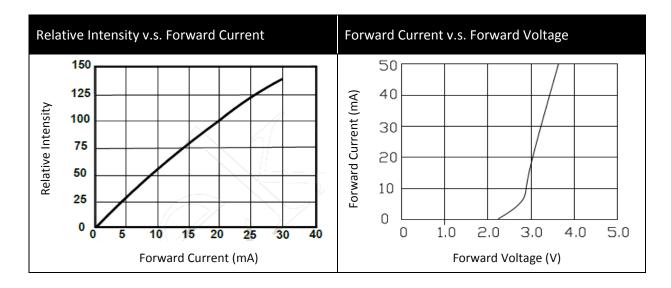
Code	Min.	Max.	Unit
17	780	1000	
18	1000	1300	mad
19	1300	1700	mcd
20	1700	2200	

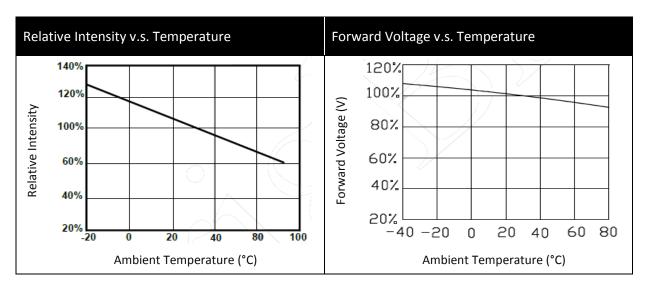
Wavelength Classifications ($I_F = 20mA$):

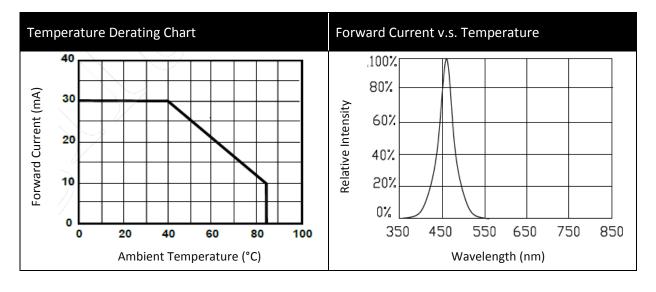
Code	Min.	Max.	Unit
D	462.5	467.5	2.22
E	467.5	472.5	nm



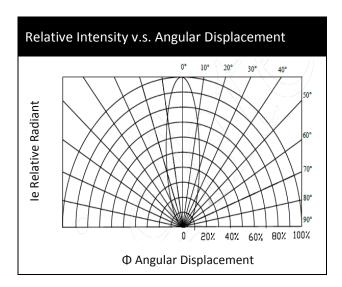
ELECTRO-OPTICAL CHARACTERISTICS:











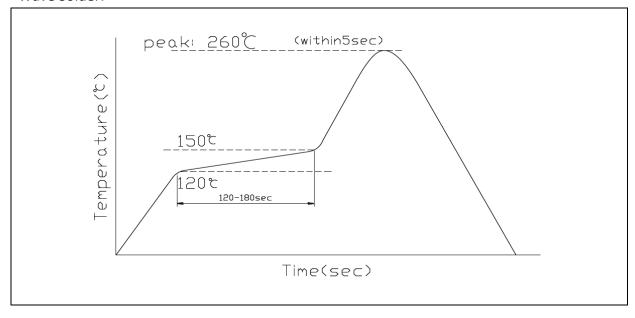


RECOMMENDED SOLDERING PROFILE:

Hand Solder (Solder Iron):

- Temperature at tip of iron: 300°C Max. (25W Max.).
- Soldering Time: 3 seconds ± 1 sec.
- Maximum reflow soldering: 1 time.

Wave Solder:



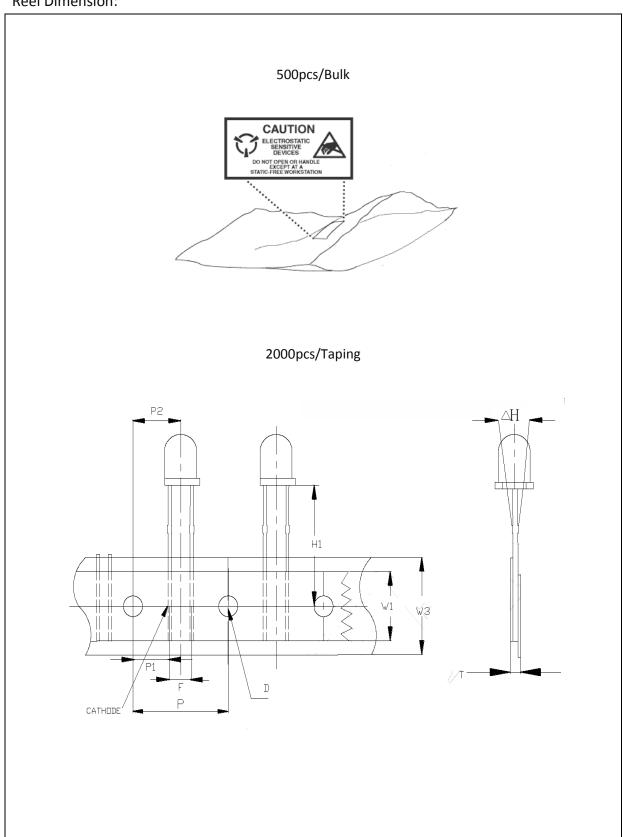
Note:

- 1. Maximum reflow soldering: 1 time.
- 2. Before, during, and after soldering, should not apply stress on the components and PCB board.



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 month 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 and apply baking at 60°C±5°C for 15hrs before use.

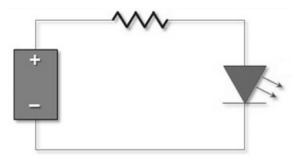
Baking:

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:

- 70±3°C x 24hrs and <5%RH, taped / reel package.
- 100±3°C x 2hrs, bulk (loose) package.
- 130±3°C x 30min, bulk (loose) 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	04/02/2016	Datasheet set-up.