



PRODUCT DATASHEET



- PTH Lamp
- 3mm Round 5.3t
- ► Sky White (Ice Blue)





NOW33L36 (Bulk)

NOW33L36T (Taping)

APPLICATIONS:

- Indicator
- Switch

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Signal Light

3mm Round Lamp Compliant

FEATURES:

- Package: PTH/THT Lamp 3mm Round 5.3t
- Forward Current: 20mA
- Forward Voltage (typ.): 3.2V
- Luminous Intensity (typ.): 10000mcd@20mA
- **Colour:** Sky White (Ice Blue)
- Colour Temperature: 24000K (X=0.2600; Y=0.2400)
- Viewing Angle: 36°
- Electrostatics Discharge (ESD): 200V
- Materials:
 - Die: InGaN
 - Resin: Epoxy (Water Clear)
- Operating Temperature: -40~+85°C
- Storage Temperature: -40~+100°C
- Grouping Parameters:
 - Forward voltage
 - Luminous intensity
 - CIE Chromaticity
- Soldering Methods: Hand; Soldering Heat (DIP)
- Packing: 500pcs/bulk; 2000pcs/tape (ammo pack)



CHARACTERISTICS:

Absolute Maximum Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	lf	30	mA
Peak Forward Current Duty 1/10@1KHz	IFP	100	mA
Reverse Current @5V	IR	10	μΑ
Power Dissipation	PD	85	mW
Electrostatics Discharge	ESD	200	V
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	Т _{sтg}	-40~+100	°C

Electrical & Optical Characteristics (Ta=25°C)

Parameter	Symbol	Values			Unit	Test	
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition	
Forward Voltage	VF	2.8	3.2	3.4	V	I⊧=20mA	
Luminous Intensity	lv	8000	10000	16500	mcd	I⊧=20mA	
Chromaticity Coordinates	х		0.2600			I⊧=20mA	
	Y		0.2400				
Colour Temperature	ССТ		24000		к	I⊧=20mA	
Viewing Angle	2 0 1/2		36		deg	I⊧=20mA	

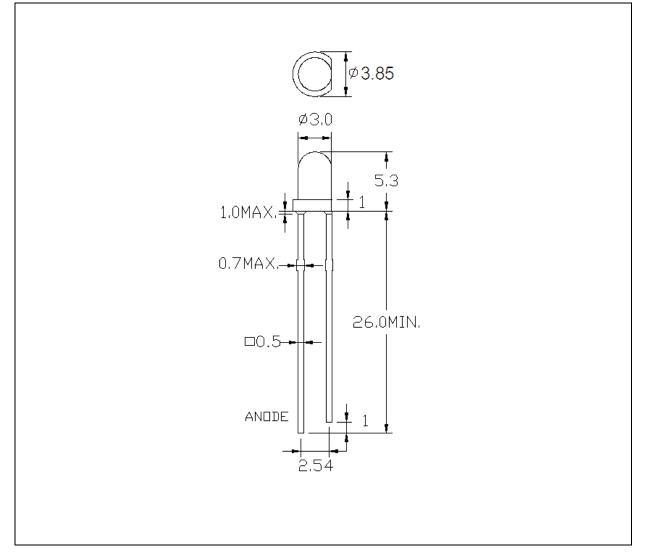
1. Luminous intensity (I_V) ±15%, Forward Voltage (V_F) ±0.1V

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OUTLINE DIMENSION:

Package Dimension:



1. All dimensions are in millimetre (mm).

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 $\ \ 2. \quad \ \ Tolerance \ \ \pm 0.25mm, \ unless \ \ otherwise \ noted.$



BINNING GROUPS:

Forward Voltage Classifications (I_F = 20mA):

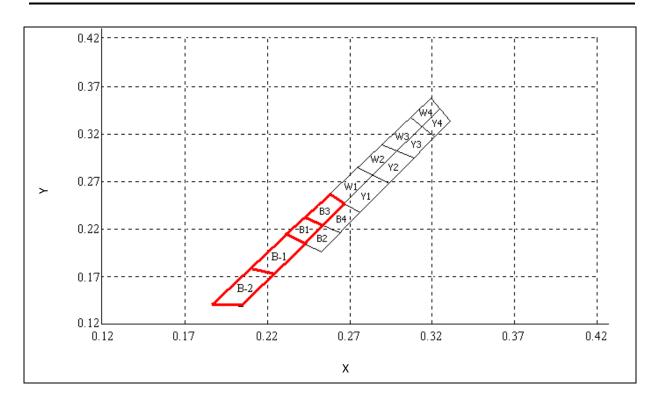
Code	Min.	Max.	Unit
J	2.8	3.0	
К	3.0	3.2	V
L	3.2	3.4	

Luminous Intensity Classifications (I_F = 20mA):

Code	Min.	Max.	Unit	
21	7300	11000	an a d	
22	11000	16500	mcd	



CIE CHROMATICITY DIAGRAM:



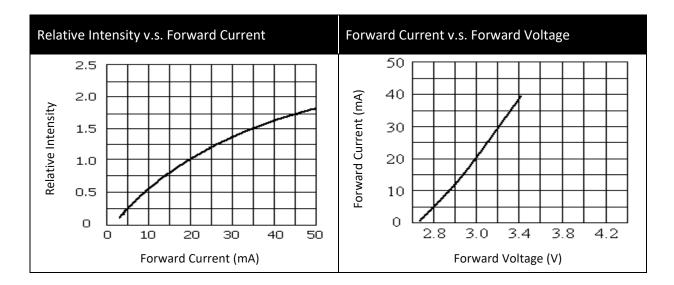
Chromaticity Coordinates Classifications (I_F = 20mA):

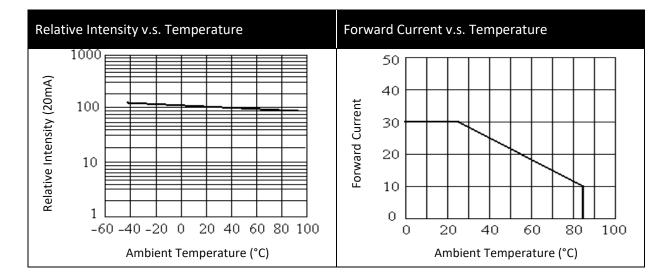
	1	L	2	2	3	3	2	1
	х	Y	х	Υ	Х	Υ	х	Y
B-1	0.2100	0.1800	0.2300	0.2100	0.2400	0.2050	0.2250	0.1750
B-2	0.1900	0.1500	0.2100	0.1800	0.2250	0.1750	0.2050	0.1450
B1	0.2300	0.2100	0.2450	0.2350	0.2540	0.2290	0.2400	0.2050
B3	0.2450	0.2350	0.2600	0.2600	0.2680	0.2530	0.2540	0.2290

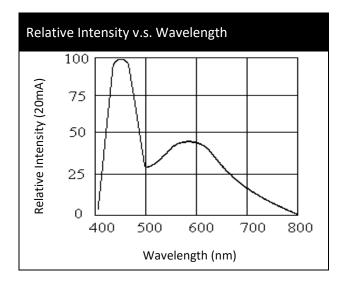
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ELECTRO-OPTICAL CHARACTERISTICS:







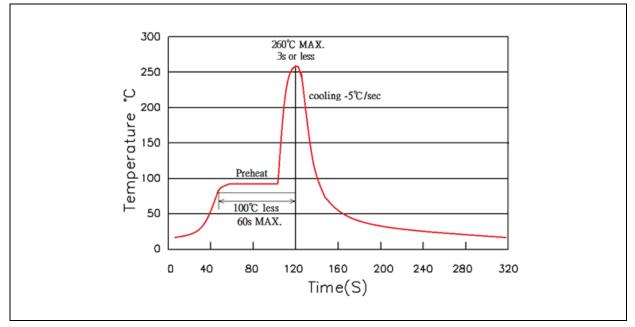


RECOMMENDED SOLDERING PROFILE:

Hand Solder (Solder Iron):

- Temperature at tip of iron: 350°C Max.
- Soldering Time: 3 seconds ± 1 sec.

Soldering Heat (DIP):



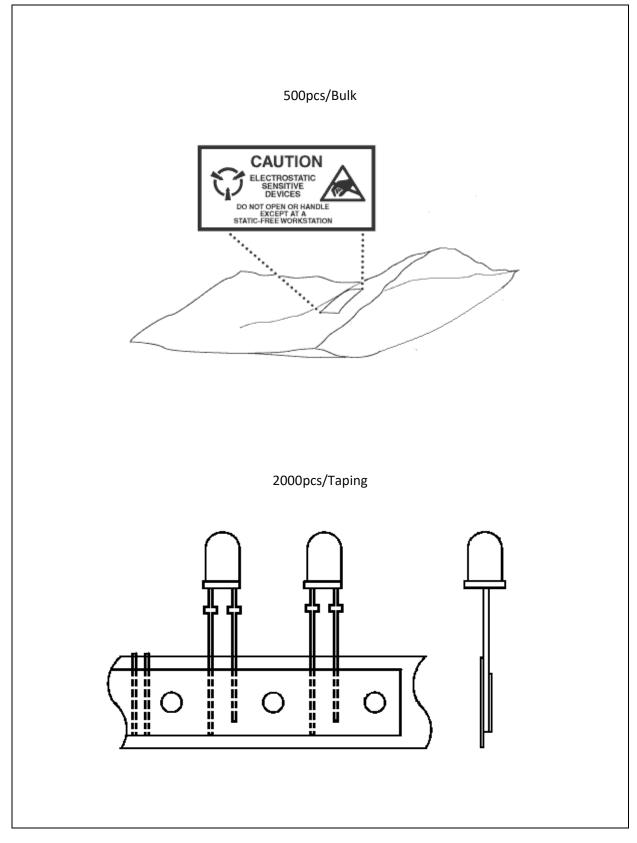
Note:

- 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:



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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 year. Otherwise, they should be kept in a damp-proof box with descanting agent <10% R.H. and apply baking before use.

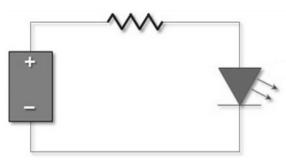
Baking:

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±5°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	23/03/2023	Datasheet set-up.
A1.1	27/12/2023	Revise storage condition.

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 N0A51S59

 N0B04S85
 N0B09S01
 N0B10S41
 N0B18S27BF
 N0B19S82SV
 N0B24S30
 N0B40S09Z
 N0B47L85
 N0B63L21
 N0F00L30
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 N0G64L64
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 N0M50S18IC
 N0M50S18I2
 N0M50S18IC
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