









PRODUCT DATASHEET



- ► PTH Lamp
- ▶ 3mm Round 5.3t
- ► Cool White (8200K)

NOW04L60Z (Bulk) NOW04L60ZT (Taping)





FEATURES:

Package: PTH/THT Lamp 3mm Round 5.3t

Forward Current: 20mA Forward Voltage (typ.): 3.1V

Luminous Intensity (typ.): 11000mcd@20mA

3mm Round Lamp compliant

Colour: Cool White

Colour Temperature: 8200K

Viewing Angle: 30°

Electrostatics Discharge (ESD): 2000V

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)

APPLICATIONS:

- Indicator
- Switch
- Signal Light



CHARACTERISTICS:

Absolute Maximum Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	I _F	30	mA
Peak Forward Current Duty 1/10@1KHz	I _{FP}	100	mA
Reverse Current @5V	I _R	10	μΑ
Power Dissipation	P _D	85	mW
Electrostatics Discharge	ESD	200	V
Operating Temperature	T _{OPR}	-40~+85	°C
Storage Temperature	T _{STG}	-40~+100	°C

Electrical & Optical Characteristics (Ta=25°C)

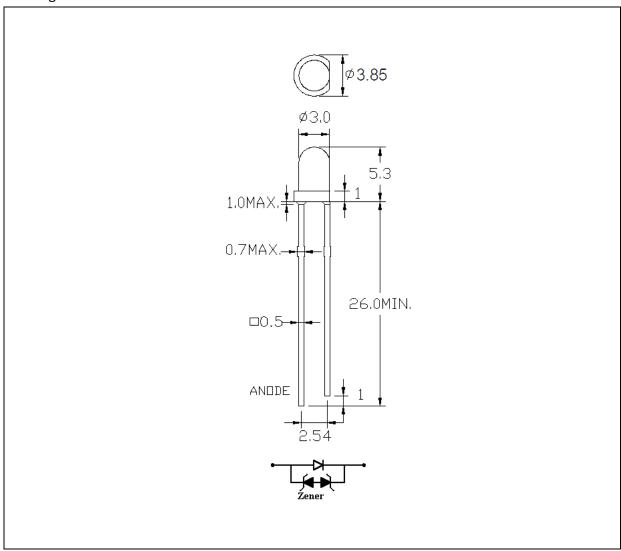
Parameter	Values			Unit	Test		
Parameter	Symbol	Min.	Тур.	Max.	Offic	Condition	
Forward Voltage	VF	2.8	3.1	3.5	V	I _F =20mA	
Luminous Intensity	lv	4900	11000	16500	mcd	I _F =20mA	
Chromaticity Coordinates	Х		0.2900			I _F =20mA	
	Υ		0.3100				
Colour Temperature	ССТ		8200		К	I _F =20mA	
Viewing Angle	2θ _{1/2}		30		deg	I _F =20mA	

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



OUTLINE DIMENSION:

Package Dimension:



- 1. All dimensions are in millimetre (mm).
- 2. Tolerance ±0.25mm, unless otherwise noted.



BINNING GROUPS:

Forward Voltage Classifications (I_F = 20mA):

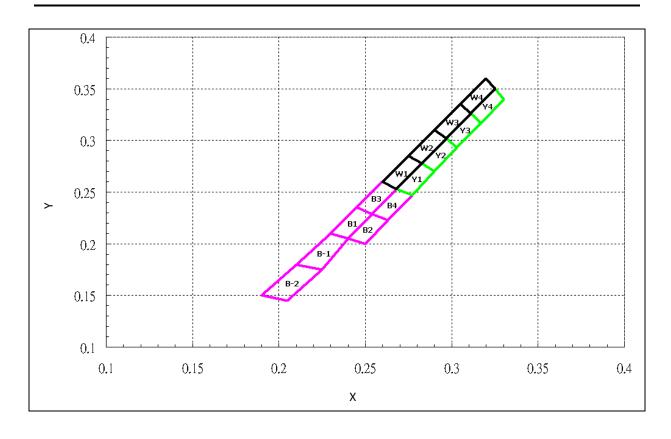
Code	Min.	Max.	Unit
J	2.8	3.0	
К	3.0	3.2	V
L	3.2	3.4	V
М	3.4	3.5	

Luminous Intensity Classifications (IF = 20mA):

Code	Min.	Max.	Unit
20	4900	7300	
21	7300	11000	mcd
22	11000	16500	



CIE CHROMATICITY DIAGRAM:

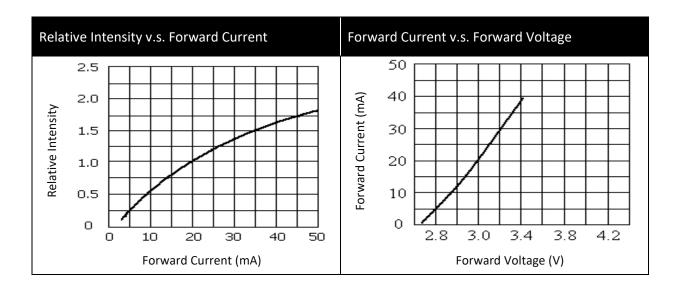


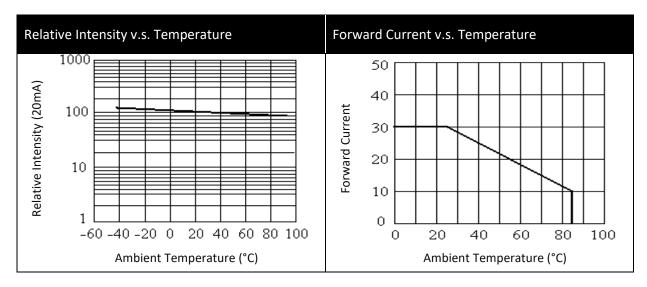
Chromaticity Coordinates Classifications (I_F = 20mA):

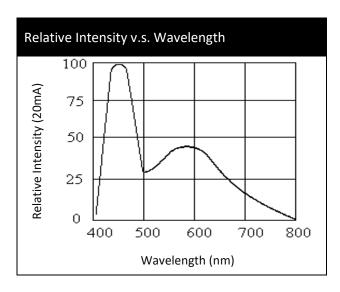
	1	1	2		3		4	
	Х	Υ	Х	Υ	Х	Υ	Х	Υ
W1	0.2600	0.2600	0.2750	0.2850	0.2830	0.2780	0.2680	0.2530
W2	0.2750	0.2850	0.2900	0.3100	0.2970	0.3020	0.2830	0.2780
W3	0.2900	0.3100	0.3050	0.3350	0.3110	0.3260	0.2970	0.3020
W4	0.3050	0.3350	0.3200	0.3600	0.3250	0.3500	0.3110	0.3260



ELECTRO-OPTICAL CHARACTERISTICS:







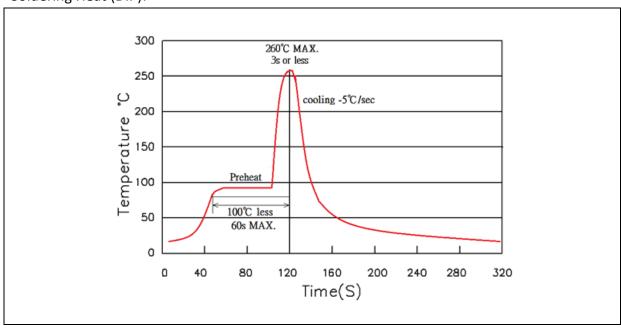


RECOMMENDED SOLDERING PROFILE:

Hand Solder (Solder Iron):

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

Soldering Heat (DIP):



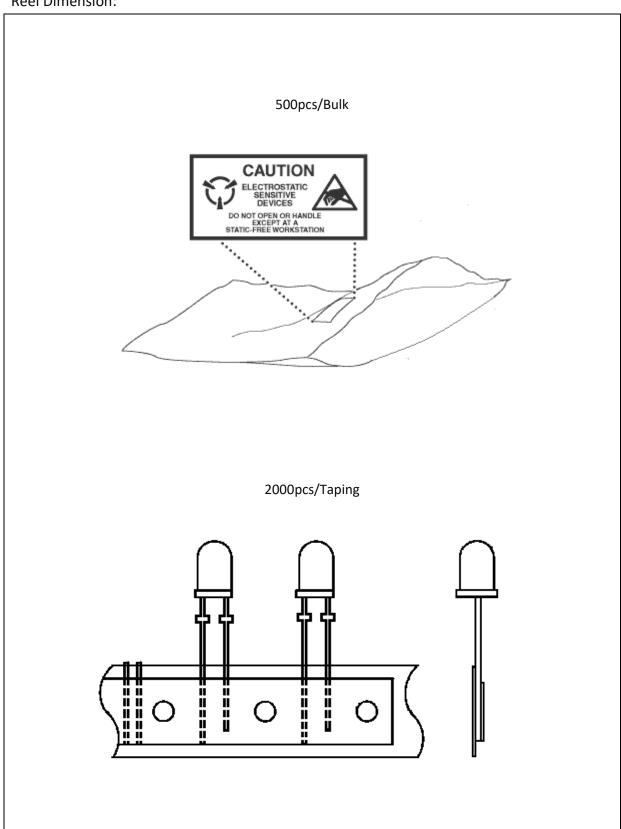
Note:

- 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:





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.

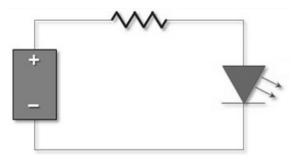
Baking:

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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N0F64L49 N0G09S03 N0G10S37 N0G10S57 N0G17S00 N0G18S45BF N0G20S39 N0G33L43 N0G34L22 N0G35L70 N0G37L06Z

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