









PRODUCT DATASHEET



- ► PTH/THT Lamp
- ▶ 3mm Round 5.3t
- ► Red (625nm)

NOR33L40 (Bulk) NOR33L40T (Tape)





APPLICATIONS:

- Indicator
- Signal
- 3C Application

3mm Round Lamp compliant





Release Date: 27 December 2023 Version: A1.1

FEATURES:

- Package: PTH/THT LED Lamp 3mm Round 5.3t
- Forward Current: 20mA
- Forward Voltage (typ.): 2.1V
- Luminous Intensity (typ.): 8000mcd@20mA
- Colour: Red
- Dominant Wavelength (typ.): 625nm
- Viewing Angle: 30°
- **Materials:**
 - Die: AlInGaP
 - Resin: Epoxy (Water Clear) Operating Temperature: -40~+85°C
- Storage Temperature: -40~+100°C
- **Grouping Parameters:**
 - Forward voltage
 - Luminous intensity
 - Dominant wavelength
- 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	IF	25	mA
Peak Forward Current Duty 1/10@1KHz	I _{FP}	100	mA
Reverse Current @5V	I _R 10		μΑ
Reverse Voltage	VR	5	V
Power Dissipation	PD	85	mW
Electrostatics Discharge	ESD	2000	V
Operating Temperature	T_OPR	-40~+85	°C
Storage Temperature	T _{STG}	-40~+100	°C

Electrical & Optical Characteristics (Ta=25°C)

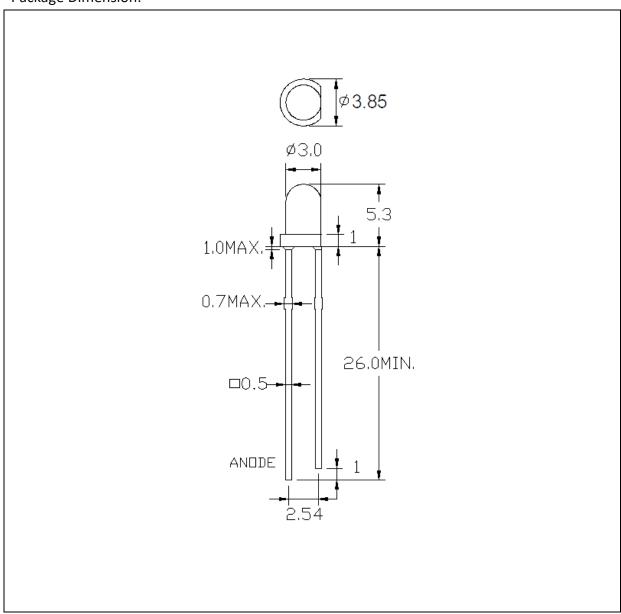
Parameter	Symbol	Values			Linit	Test
		Min.	Тур.	Max.	Unit	Condition
Forward Voltage	VF	1.7	2.1	2.6	V	I _F =20mA
Luminous Intensity	lv	6500	8000	12000	mcd	I _F =20mA
Dominant Wavelength	λ_{D}	620	625	630	nm	I _F =20mA
Peak Wavelength	$\lambda_{ extsf{P}}$		635		nm	I _F =20mA
Spectral Line Half Bandwidth	Δλ		17		nm	I _F =20mA
Viewing Angle	2θ _{1/2}		30		deg	I _F =20mA

^{1.} Luminous intensity (I_V) $\pm 15\%$, Forward Voltage (V_F) ± 0.1 V, Viewing angle($2\theta_{1/2}$) $\pm 5\%$



OUTLINE DIMENSION:

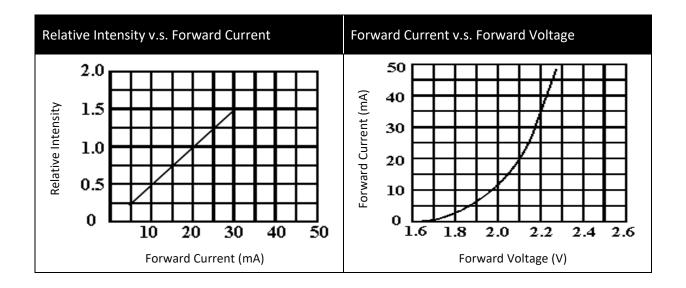
Package Dimension:

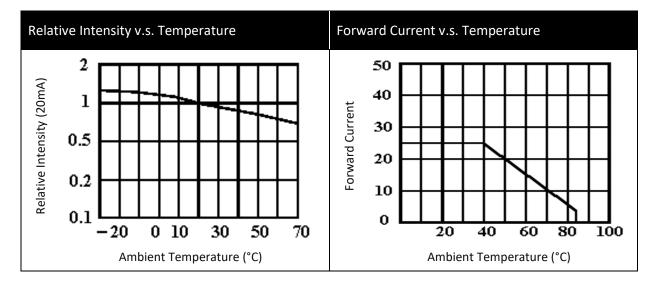


- 1. All dimensions are in millimetre (mm).
- 2. Tolerance ±0.2mm, unless otherwise noted.



ELECTRO-OPTICAL CHARACTERISTICS:





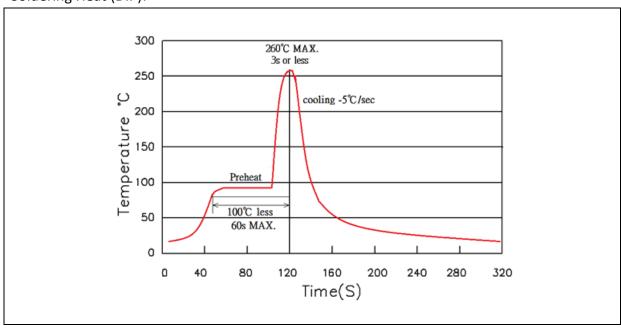


RECOMMENDED SOLDERING PROFILE:

Hand Solder (Solder Iron):

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

Soldering Heat (DIP):



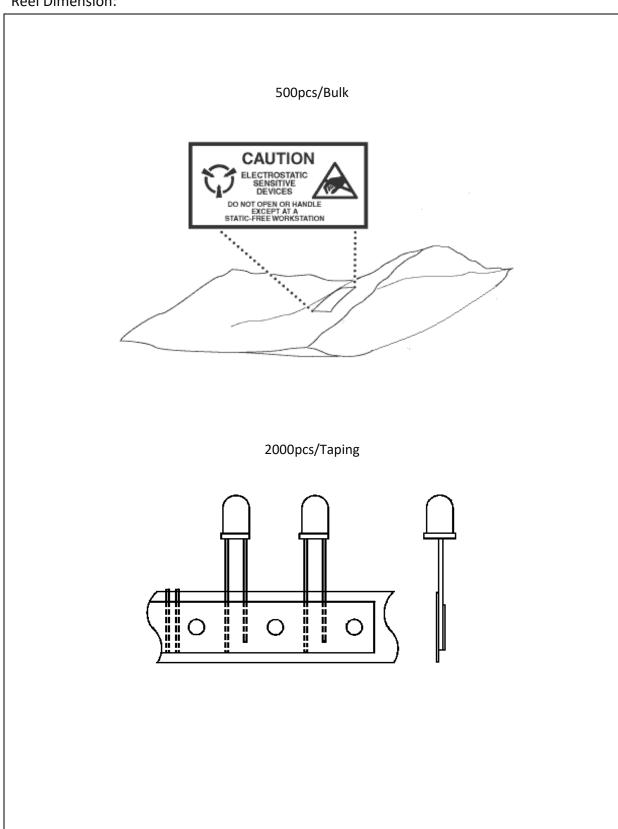
Note:

- 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.

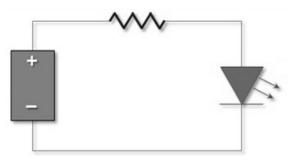
Baking:

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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