



PRODUCT DATASHEET



- PTH Lamp
- 5mm Round 8.7t
- Red (625nm)

Release Date: 04 February 2016 Version: A1.0

NOR26L54 (Bulk) NOR26L54T (Taping)



5mm Lamp 8.7t



FEATURES:

- Package: Water Clear 5mm Round PTH Lamp
- Forward Current: 20mA
- Forward Voltage (typ.): 2.0V
- Luminous Intensity (typ.): 14000mcd .
- Colour: Red
- Wavelength: 625nm
- Viewing angle: 15°
- Materials:
 - Die: AlGaInP _
 - Resin: Epoxy (Water Clear)
 - 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

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APPLICATIONS:

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

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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	80	mW
Electrostatics Discharge (HBM)	ESD	2000	V
Operating Temperature	T _{OPR}	-40~+85	°C
Storage Temperature	T _{STG}	-40~+100	°C
Junction Temperature	Tj	110	°C

Electrical & Optical Characteristics (Ta=25°C)

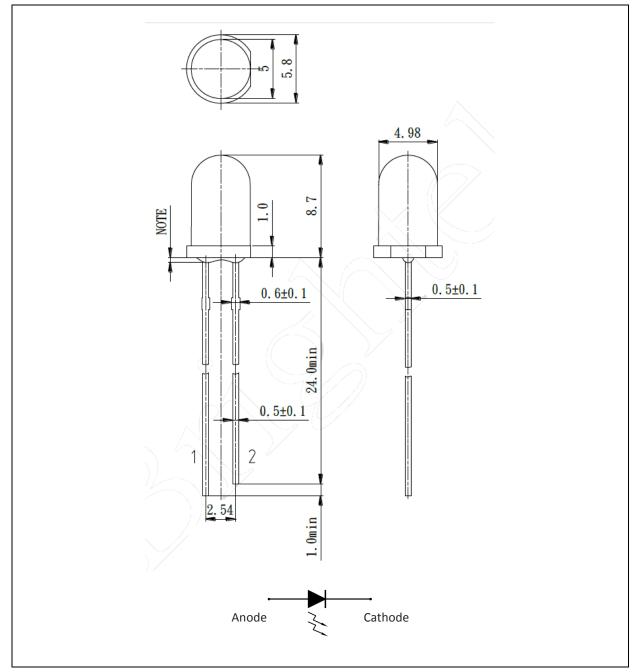
Parameter Symbol		Values			Unit	Test
Parameter	Symbol	Min.	Тур.	Max.	Om	Condition
Forward Voltage	V _F	1.8	2.0	2.4	V	I _F =20mA
Luminous Intensity	Iv	8200	14000	23400	mcd	I _F =20mA
Dominant Wavelength	λ_{D}	620	625	630	nm	I _F =20mA
Viewing Angle	20 _{1/2}		15		deg	I _F =20mA

1. Luminous Intensity (I_v) ±10%, Forward Voltage (V_F) ±0.1V, Dominant Wavelength (λ_D) ±1nm



OUTLINE DIMENSION:

Package Dimension:



1. All dimensions are in millimetre (mm).

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2. Tolerance ±0.3mm, unless otherwise noted.



BINNING GROUPS:

Code	Min.	Max.	Unit
D	1.8	1.9	
E	1.9	2.0	
F	2.0	2.1	V
G	2.1	2.2	V
Н	2.2	2.3	
I	2.3	2.4	

Forward Voltage Classifications ($I_F = 20mA$):

Radiant Intensity Classifications (I_F = 20mA):

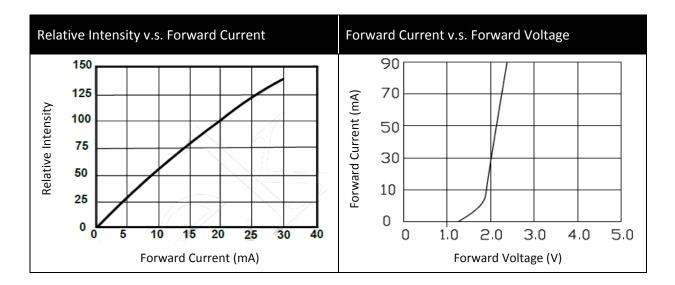
Code	Min.	Max.	Unit
26	8200	10600	
27	10600	13800	in a d
28	13800	18000	mcd
29	18000	23400	

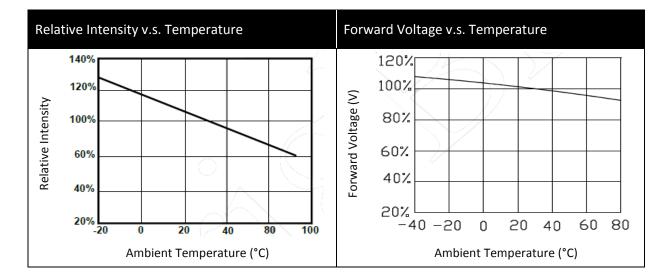
Wavelength Classifications ($I_F = 20mA$):

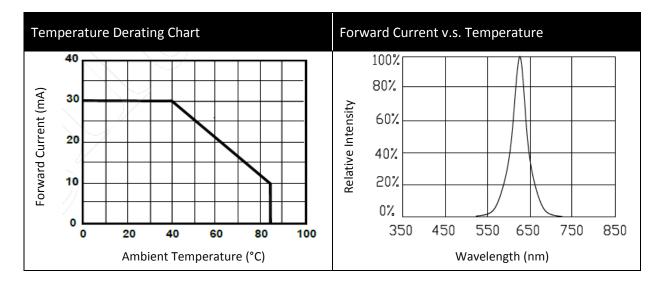
Code	Min.	Max.	Unit
С	620	625	
D	625	630	nm



ELECTRO-OPTICAL CHARACTERISTICS:

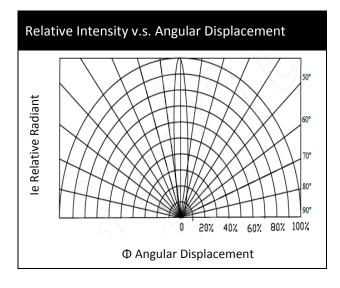






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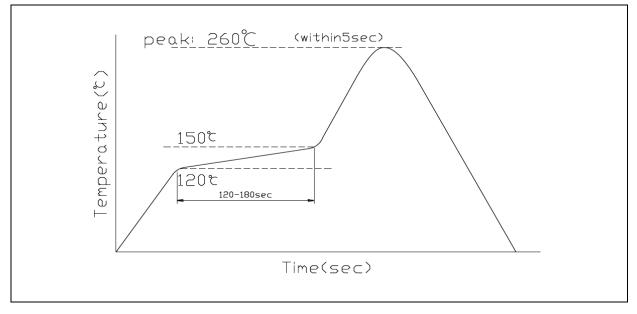


RECOMMENDED SOLDERING PROFILE:

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:



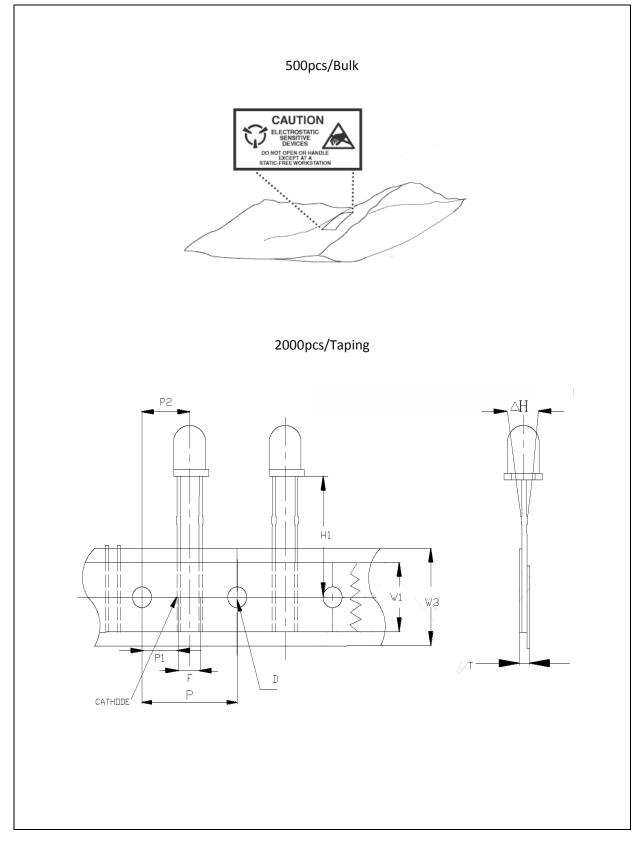
Note:

- 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:



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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 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.

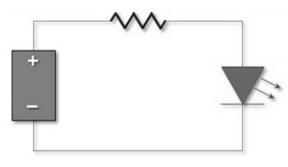
Baking:

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:

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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.