



PRODUCT DATASHEET



- ▶ PTH/THT Lamp
- 3mm Round 5.3t
- Yellow (592nm)





NOY33L45 (Bulk)

NOY33L45T (Tape)

APPLICATIONS:

- Indicator
- Signal
- 3C Application

3mm Round Lamp compliant

FEATURES:

- Package: PTH/THT LED Lamp 3mm Round 5.3t
- Forward Current: 20mA
- Forward Voltage (typ.): 2.1V
- Luminous Intensity (typ.): 6500mcd@20mA
- Colour: Yellow
- Dominant Wavelength (typ.): 592nm
- 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	lf	25	mA
Peak Forward Current Duty 1/10@1KHz	IFP	100	mA
Reverse Current @5V	IR	10	μΑ
Reverse Voltage	V _R	5	V
Power Dissipation	PD	85	mW
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	T _{STG}	-40~+100	°C

Electrical & Optical Characteristics (Ta=25°C)

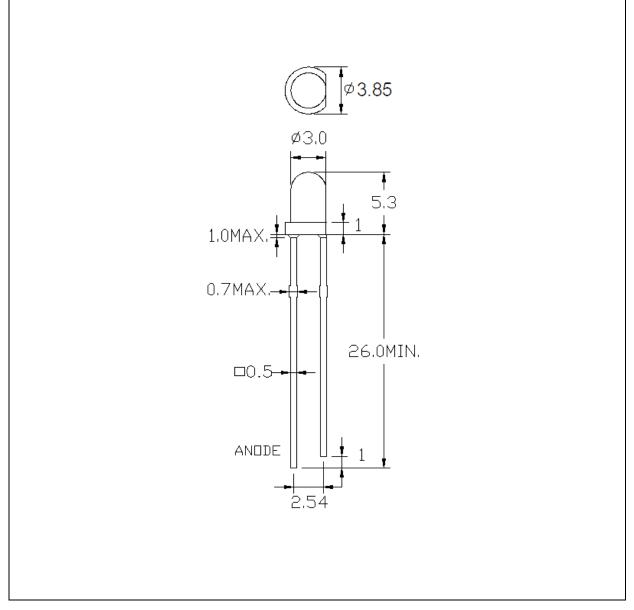
Darameter	Symbol	Values			Unit	Test
Parameter		Min.	Тур.	Max.	Unit	Condition
Forward Voltage	VF	1.8	2.1	2.6	V	I⊧=20mA
Luminous Intensity	lv	5000	6500	8500	mcd	I⊧=20mA
Dominant Wavelength	λ_{D}	588	592	595	nm	I⊧=20mA
Peak Wavelength	λ_{P}		590		nm	I⊧=20mA
Spectral Line Half Bandwidth	Δλ		22		nm	I⊧=20mA
Viewing Angle	20 _{1/2}		30		deg	I _F =20mA

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



OUTLINE DIMENSION:

Package Dimension:



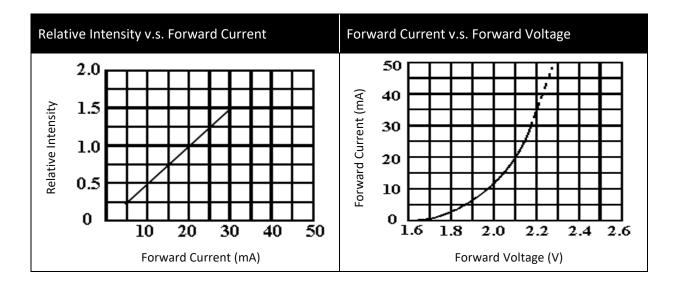
1. All dimensions are in millimetre (mm).

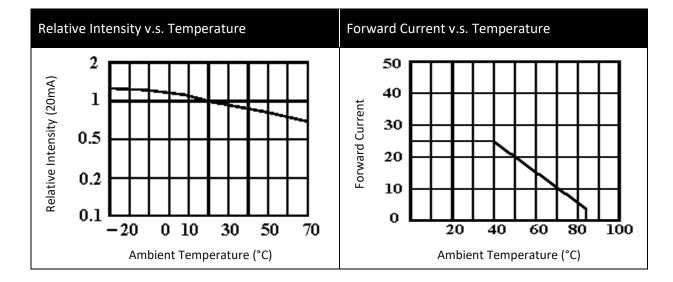
3

2. Tolerance ±0.2mm, unless otherwise noted.



ELECTRO-OPTICAL CHARACTERISTICS:





4

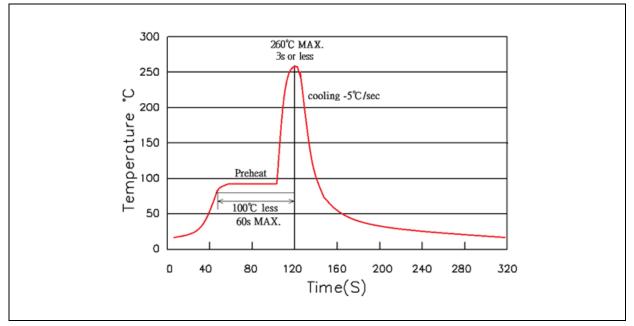


RECOMMENDED SOLDERING PROFILE:

Hand Solder (Solder Iron):

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

Soldering Heat (DIP):



Note:

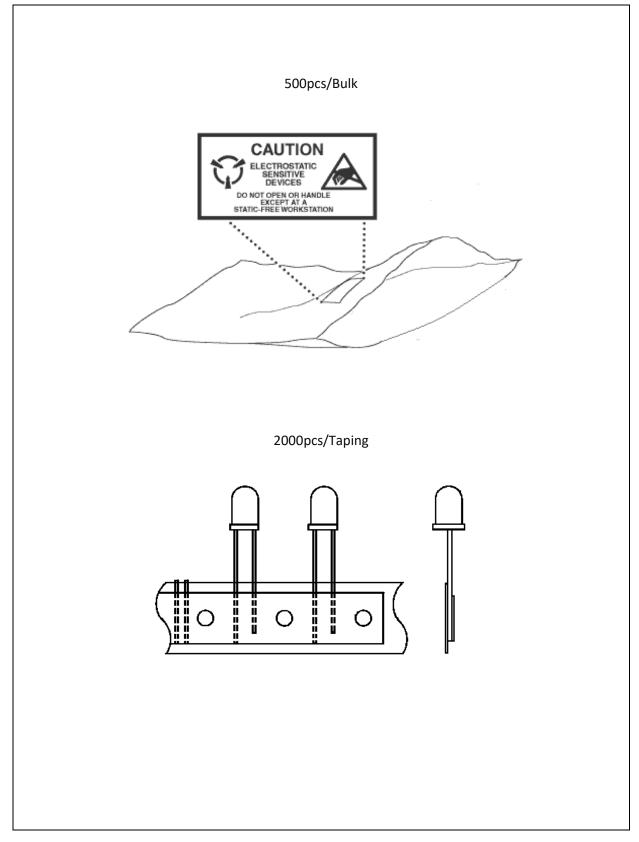
5

- 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:



6

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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for MGT Brightek manufacturer:

Other Similar products are found below :

 AA36
 AA36F
 AA40F-5
 AB30S
 AB37S
 AB38S
 AB42S
 AB45S
 N0A17L37
 N0A18S20BS
 N0A19S81SV
 N0A40S05
 N0A51S59

 N0B04S85
 N0B09S01
 N0B10S41
 N0B18S27BF
 N0B19S82SV
 N0B24S30
 N0B40S09Z
 N0B47L85
 N0B63L21
 N0F00L30
 N0F01L14

 N0F64L49
 N0G09S03
 N0G10S37
 N0G10S57
 N0G17S00
 N0G18S45BF
 N0G20S39
 N0G33L43
 N0G34L22
 N0G35L70
 N0G37L06Z

 N0G40S08Z
 N0G49L27PC
 N0G49L28
 N0G51S32BS
 N0G51S61-2MA
 N0G64L37
 N0G64L64
 N0M03S91BS
 N0M45S36IC

 N0M48S05
 N0M50S15IC
 N0M50S18IC
 N0M50S18I2
 N0M50S18IC
 N0M50S18I2