













- ► Graphic Display
- ▶ 10 Bars
- ➤ Yellow (590nm)

NOY58D90BS



Graphic Display





10 Bars Display

APPLICATIONS:

- **LED Display**
- Indicator
- **Counting System**

FEATURES:

- Package: Throughhole 10 Bars LED Graphic Display
- Forward Current: 20mA*
- Forward Voltage (typ.): 2.0V*
- Luminous Intensity (typ.): 26mcd@20mA*
- Colour: Yellow
- Dominant Wavelength (typ.): 590nm
- **Materials:**
 - Die: AlInGaP
 - Resin: Epoxy (White Diffused)
 - Surface Colour: Black
- Operating Temperature: -25~+85°C
- Storage Temperature: -30~+85°C
- **Grouping Parameters:**
 - Forward voltage
 - Luminous intensity
 - Dominant wavelength
- Soldering Methods: Soldering Heat Packing: Bulk max.500pcs/carton
 - * per single bar



CHARACTERISTICS:

Absolute Maximum Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	I _F	20	mA
Peak Forward Current Duty 1/10, 0.1mS width	I _{FP}	80	mA
Reverse Voltage	VR	5	V
Reverse Current @5V	I _R	10	μА
Power Dissipation	P _D	75	mW
Operating Temperature	TOPR	-25~+85	°C
Storage Temperature	T_{STG}	-30~+85	°C

Electrical & Optical Characteristics (Ta=25°C)

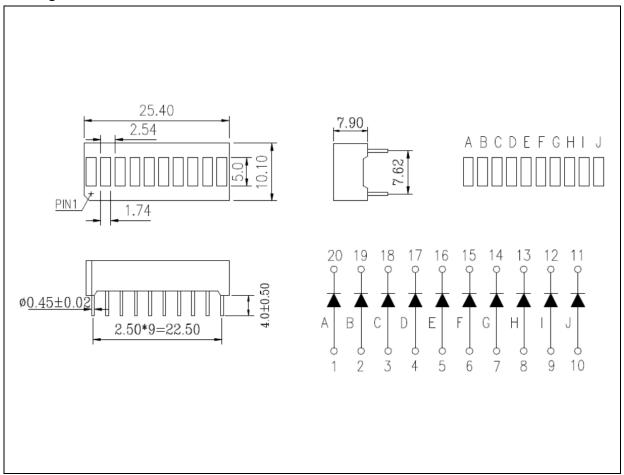
Davamatav	Symbol	Values			l lock	Test
Parameter		Min.	Тур.	Max.	Unit	Condition
Forward Voltage	V_{F}	1.8	2.0	2.3	V	I _F =20mA
Luminous Intensity	lv	10.3	15.5		mcd	I _F =10mA
			26.0			I _F =20mA
Dominant Wavelength	λ_{D}	587	590	593	nm	I _F =20mA
Peak Wavelength	λ_{P}		590		nm	I _F =20mA
Spectral Half Bandwidth	Δλ		15		nm	I _F =20mA
Viewing Angle	2θ _{1/2}				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).
- 2. Tolerance ±0.2mm, unless otherwise noted.



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.

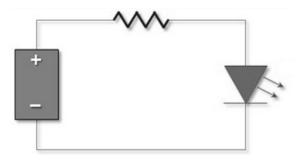
Baking:

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±3°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	30/03/2021	Datasheet set-up.
A1.1	08/12/2023	Revise storage condition.