



**EN:** This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at [www.hestore.hu](http://www.hestore.hu).

## 7.0mm X 30.0mm Single Color Light Bar

### Features:

- \*High segment intensity
- \*Wide viewing angle
- \*Range of colors
- \*Black face White segment
- \*RoHS compliant

### Available option:

- \*Alternative face and segment color
- \*Cropped terminal pins
- \*Available emitting color
- \*Low current version

### Electro/Optical Characteristics If=20mA Ta=25°C

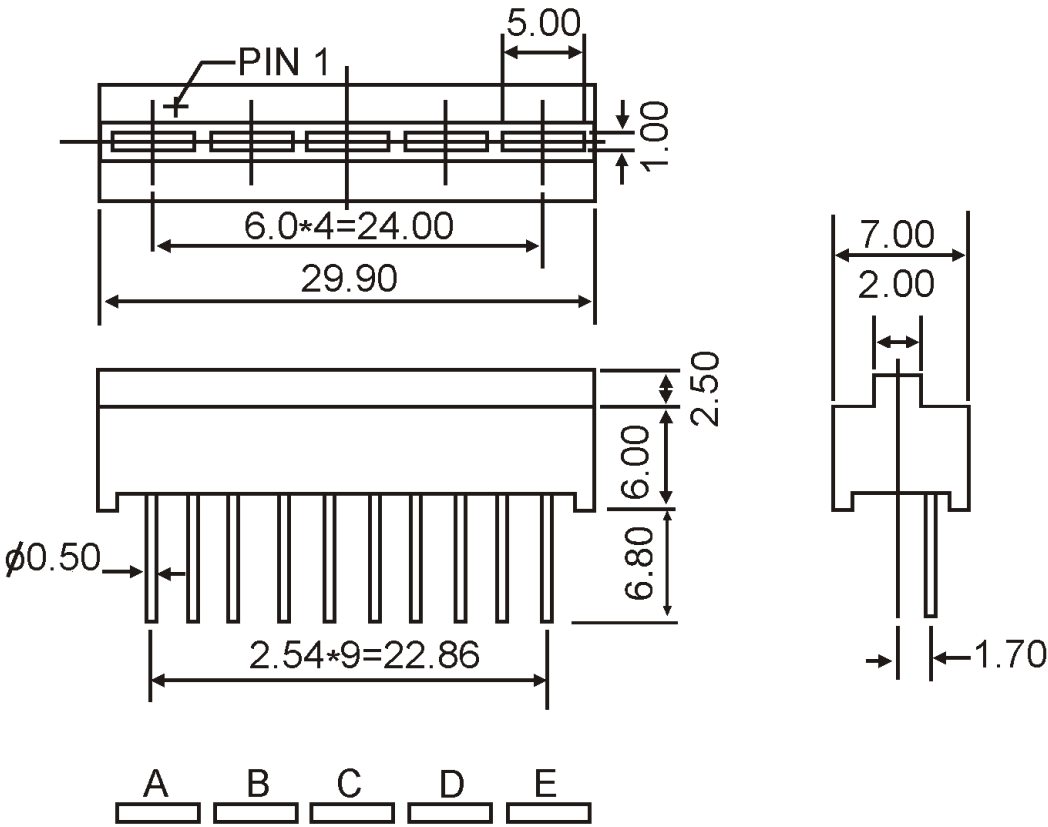
| Part Number |  | Emitting Color           | Peak Wavelength | Forward Voltage V <sub>F</sub> /Seg. |      | Luminous Intensity I <sub>v</sub> /Seg. |       |
|-------------|--|--------------------------|-----------------|--------------------------------------|------|-----------------------------------------|-------|
|             |  |                          |                 | Typ.                                 | Max. | Min.                                    | Typ.  |
|             |  | GaP/GaP Red              | 700             | 2.25                                 | 2.50 | 0.40                                    | 0.80  |
| LN-BL005HR  |  | GaAlAs/GaAs SH Hi-Red    | 660             | 1.80                                 | 2.20 | 8.00                                    | 12.00 |
| LN-BL005SR  |  | GaAlAs/GaAs DH Super Red | 660             | 1.80                                 | 2.20 | 22.00                                   | 28.00 |
| LN-BL005O   |  | GaAsP/GaP Orange         | 632             | 2.10                                 | 2.50 | 8.00                                    | 12.00 |
| LN-BL005Y   |  | GaAsP/GaP Yellow         | 585             | 2.10                                 | 2.50 | 4.00                                    | 7.00  |
| LN-BL005G   |  | GaP/GaP Green            | 568             | 2.20                                 | 2.50 | 7.00                                    | 11.00 |
| Units       |  |                          | nm              | V                                    |      | mcd                                     |       |

### Maximum Ratings Ta=25°C (Derate above 25°C)

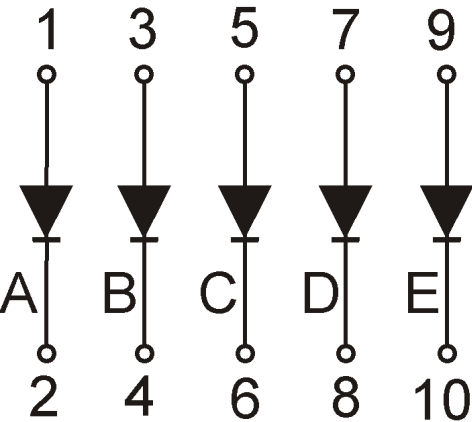
| Characteristic                 | Test Condition                     | Symbol           |            | HR   | SR   | O    | Y    | G    | Units |
|--------------------------------|------------------------------------|------------------|------------|------|------|------|------|------|-------|
| Pulse Forward Current Per Seg. | 1/10 duty cycle 0.1ms Pulse width  | I <sub>FP</sub>  | 50         | 100  | 100  | 100  | 100  | 100  | mA    |
| DC Forward Current Per Seg.    |                                    | I <sub>F</sub>   | 15         | 25   | 25   | 30   | 30   | 30   | mA    |
| Reverse Current Per Seg.       | V <sub>R</sub> =5V                 | I <sub>R</sub>   | 10         | 10   | 10   | 10   | 10   | 10   | μ A   |
| Power Dissipation              |                                    | P <sub>D</sub>   | 40*5       | 60*5 | 60*5 | 80*5 | 80*5 | 80*5 | mW    |
| Operating Temperature          |                                    | T <sub>OPR</sub> | -40 to +80 |      |      |      |      |      | °C    |
| Storage Temperature            |                                    | T <sub>TSG</sub> | -40 to +85 |      |      |      |      |      | °C    |
| Lead soldering temperature     | 1.60mm from body maximum 3 seconds |                  | 260        |      |      |      |      |      | °C    |

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PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



Tolerance  $\pm 0.25\text{mm}$  unless stated