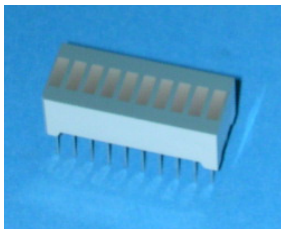
EVERLIGHT AMERICAS

DATASHEET

Display ▪ Through-hole
EADLBA10GA1



Features

- Industrial standard size.
- Low power consumption.
- Categorized for luminous intensity.
- Pb free and RoHS compliant.

Description

- The EADLBA10GA1 is a pattern display designed for viewing distances up to 7 meters.
- The display provides excellent reliability in bright ambient light.
- The device is made with white segments and gray surface.

Applications

- Home appliances
- Instrument panels
- Digital readout displays

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Device Selection Guide

Chip Materials	Emitted Color	Resin Color
AlGaInP	Brilliant Yellow Green	White Diffusion

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	25	mA
Peak Forward Current (Duty 1/10 @1KHz)	I_{FP}	60	mA
Power Dissipation	Pd	60	mW
Operating Temperature	T_{opr}	-40 ~ +85	℃
Storage Temperature	T_{stg}	-40 ~ +100	℃
Soldering Temperature (Soldering time≦5 seconds)	T_{sol}	260	℃

Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity[*1]	Iv	2.8	6.4	-----	mcd	I_F=10mA
Peak Wavelength	λp	-----	575	-----	nm	I_F=20mA
Dominant Wavelength	λd	-----	573	-----	nm	I_F=20mA
Spectrum Radiation Bandwidth	Δλ	-----	20	-----	nm	I_F=20mA
Forward Voltage	V_F	-----	2.0	2.4	V	I_F=20mA
Reverse Current	I_R	-----	-----	100	μA	V_R=5V

Note:
1. Tolerance of Luminous Intensity: ± 10 %
2. Tolerance of Forward Voltage: ± 0.1V

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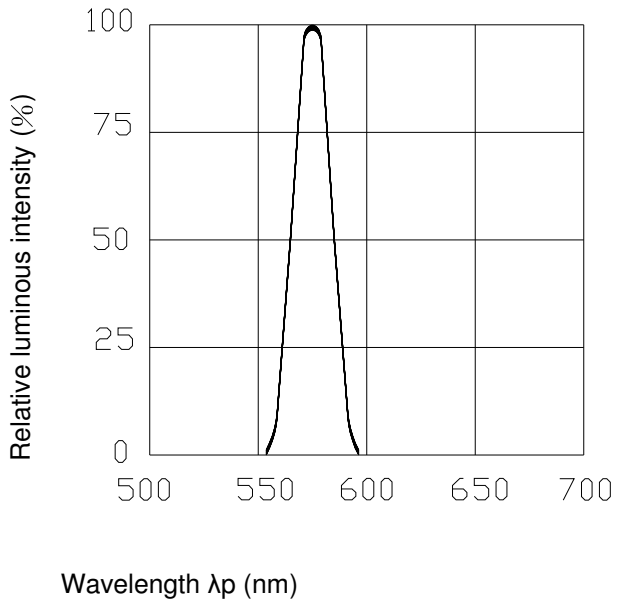
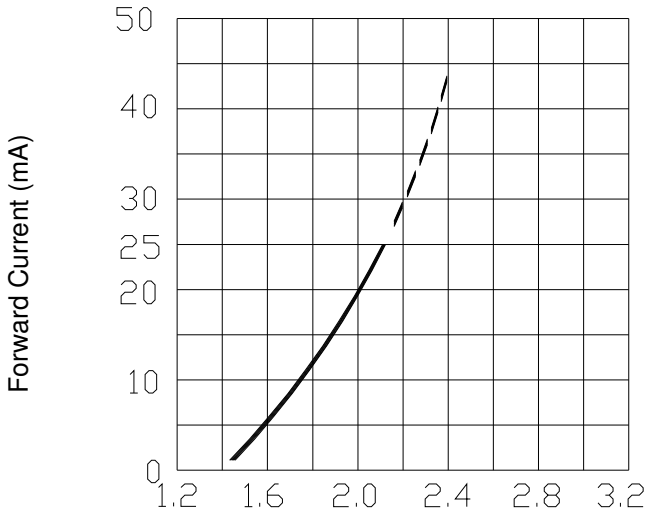
Typical Electro-Optical Characteristics Curves

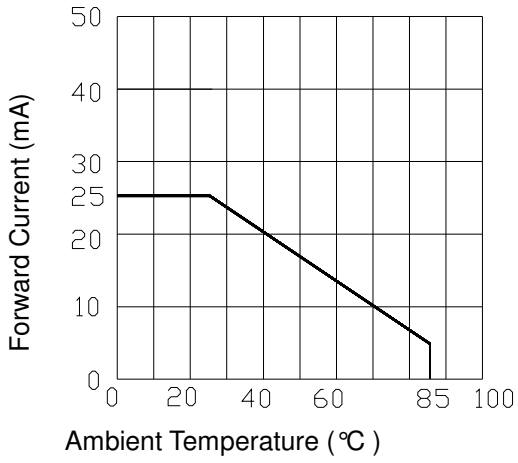
Spectrum Distribution (Ta=25℃)



Forward Current vs. Forward Voltage (Ta=25℃)



Forward Current Derating Curve



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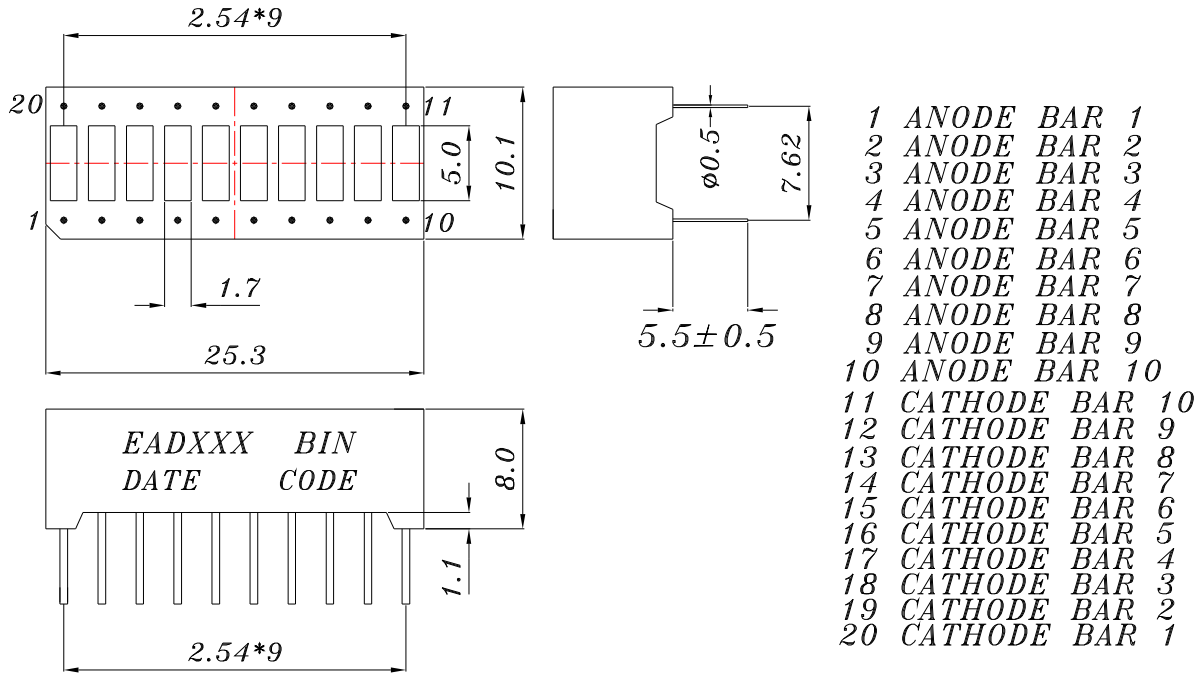
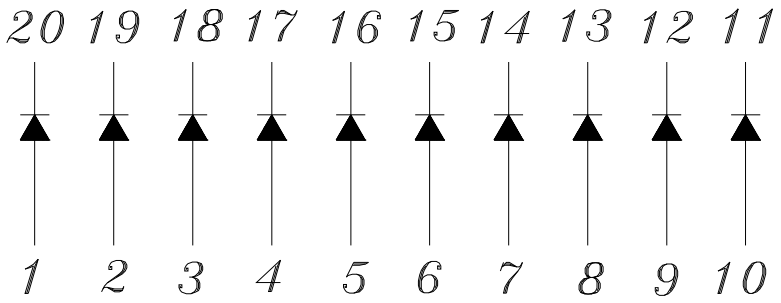
Package Dimension & Internal Circuit Diagram





Note: Tolerances unless mentioned ±0.25mm. Unit = mm

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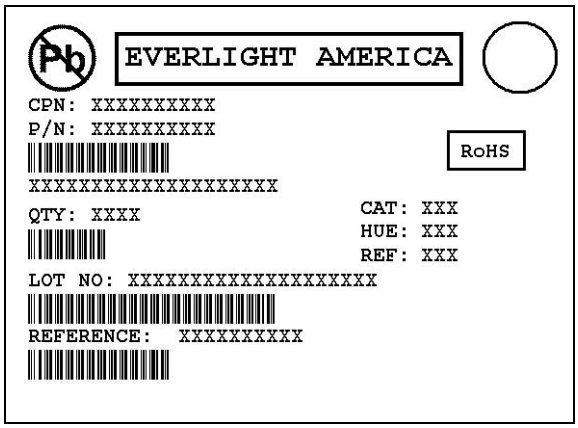
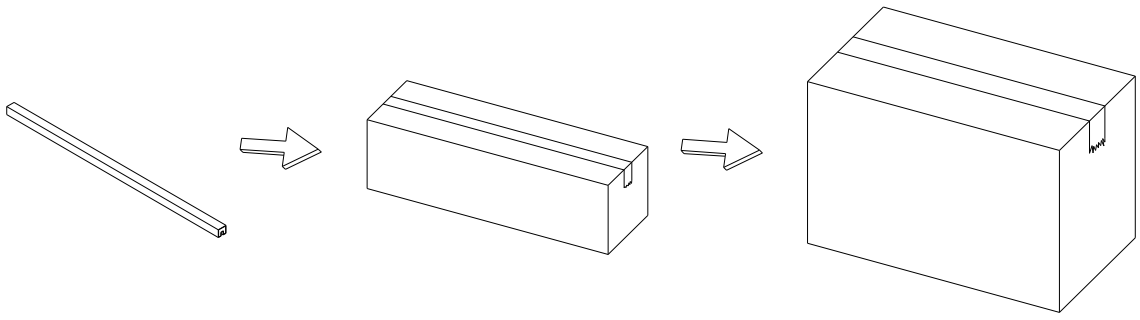
Packing Materials

Label Explanation



- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Reference
- REF: Reference
- LOT No: Lot Number
- REFERENCE: Volume Label code

Packing Process



19 PCS/Tube **88 Tubes/Box** **4 Boxes/Carton**

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Application Restrictions

1. Specification described in this document. Above specification may be changed without notice. EVERLIGHT Americas will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT Americas assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
3. These specification sheets include materials protected under copyright of EVERLIGHT Americas Corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT Americas' consent.
4. ESD (Electrostatic Discharge)
   - The products are sensitive to static electricity or surge voltage. ESD can damage a die and its reliability. When handling the products, the following measures against electrostatic discharge are strongly recommended:
     - Eliminating the charge
     - Grounded wrist strap, ESD footwear, clothes, and floors
     - Grounded workstation equipment and tools
     - ESD table/shelf mat made of conductive materials
   - Proper grounding is required for all devices, equipment, and machinery used in product assembly. Surge protection should be considered when designing of commercial products.
   - If tools or equipment contain insulating materials such as glass or plastic, the following measures against electrostatic discharge are strongly recommended:
     - Dissipating static charge with conductive materials
     - Preventing charge generation with moisture
     - Neutralizing the charge with ionizers
5. The LEDs should be operated with forward bias. The driving circuit must be designed so that the LEDs are not subjected to forward or reverse voltage while it is off. If reverse voltage is continuously applied to the LEDs, it may cause migration resulting in LED damage.

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