

DATASHEET

Display ■ Through-hole ELD-425USOWA/S530-A4



Features

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

Description

- The ELD-425USOWA/S530-A4 is a 10.16mm (0.4") digit height seven-segment display.
- 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	Reddish Orange	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)

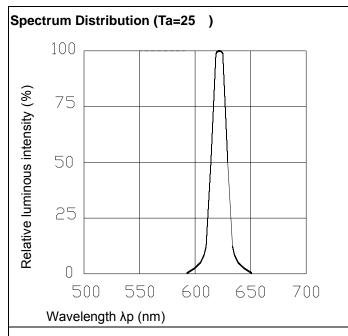
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity*1	lv	11.0	24.0		mcd	I _F =10mA
Peak Wavelength	λр		621		nm	I _F =20mA
Dominant Wavelength	λd		615		nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ		18		nm	I _F =20mA
Forward Voltage	V_{F}		2.0	2.4	V	I _F =20mA
Reverse Current	I _R			100	μΑ	V _R =5V

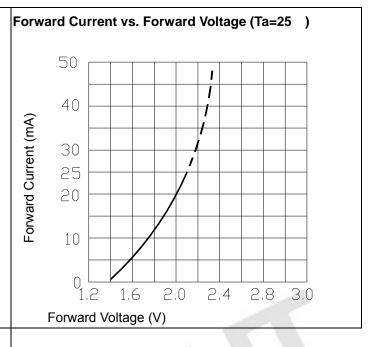
Note:

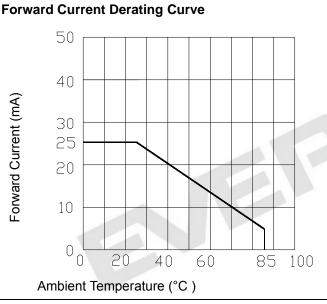
- 1. Luminous Intensity is a average value which is measured one 7-segment.
- 2. Tolerance of Luminous Intensity: ± 10 %
- 3. Tolerance of Forward Voltage: ± 0.1V



Typical Electro-Optical Characteristics Curves



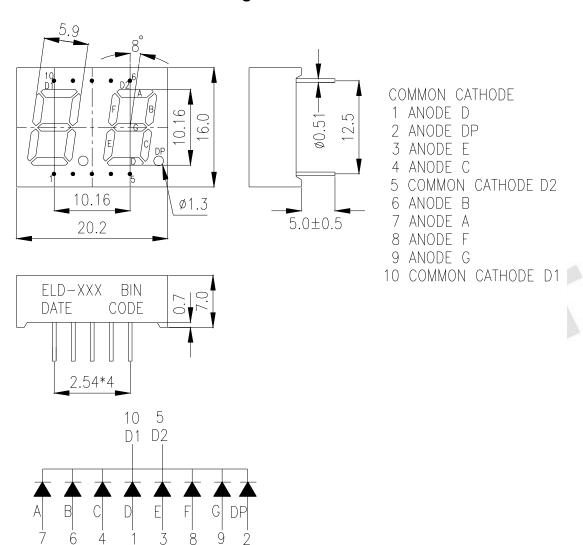




Expired Period: Forever



Package Dimension & Internal Circuit Diagram

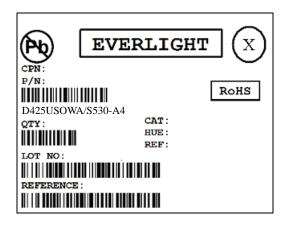


Note: Tolerances unless mentioned ±0.25mm. Unit = mm



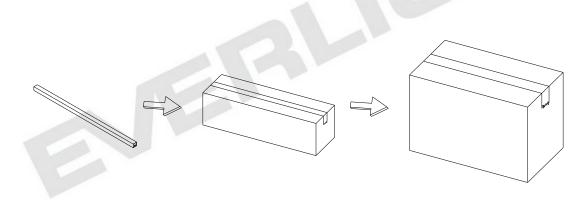
Packing Materials

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



25 PCS/Tube 64 Tubes/Box 4Boxes/Carton

Expired Period: Forever



Application Restrictions

- 1. Specification described in this document. Above specification may be changed without notice. EVERLIGHT 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 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 Corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's 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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LifecyclePhase:

Approved

www.everlight.com