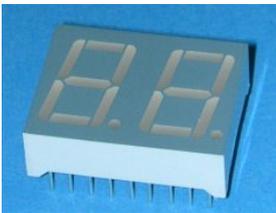


Display ■ Through-hole ELD-511UTWA/T5/S700/S1025



Features

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

Description

- The ELD-511UTWA/T5/S700/S1025 is a 14.22mm (0.56") 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

Device Selection Guide

Chip Materials	Emitted Color	Resin Color
InGaN	Pure White	White Diffusion

Absolute Maximum Ratings (Ta=25 °C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	20	mA
Peak Forward Current (Duty 1/10 @1KHz)	I_{FP}	100	mA
Power Dissipation	P_d	75	mW
Operating Temperature	T_{opr}	-40 ~ +85	
Storage Temperature	T_{stq}	-40 ~ +100	
Soldering Temperature (Soldering time 5 seconds)	T_{sol}	260	

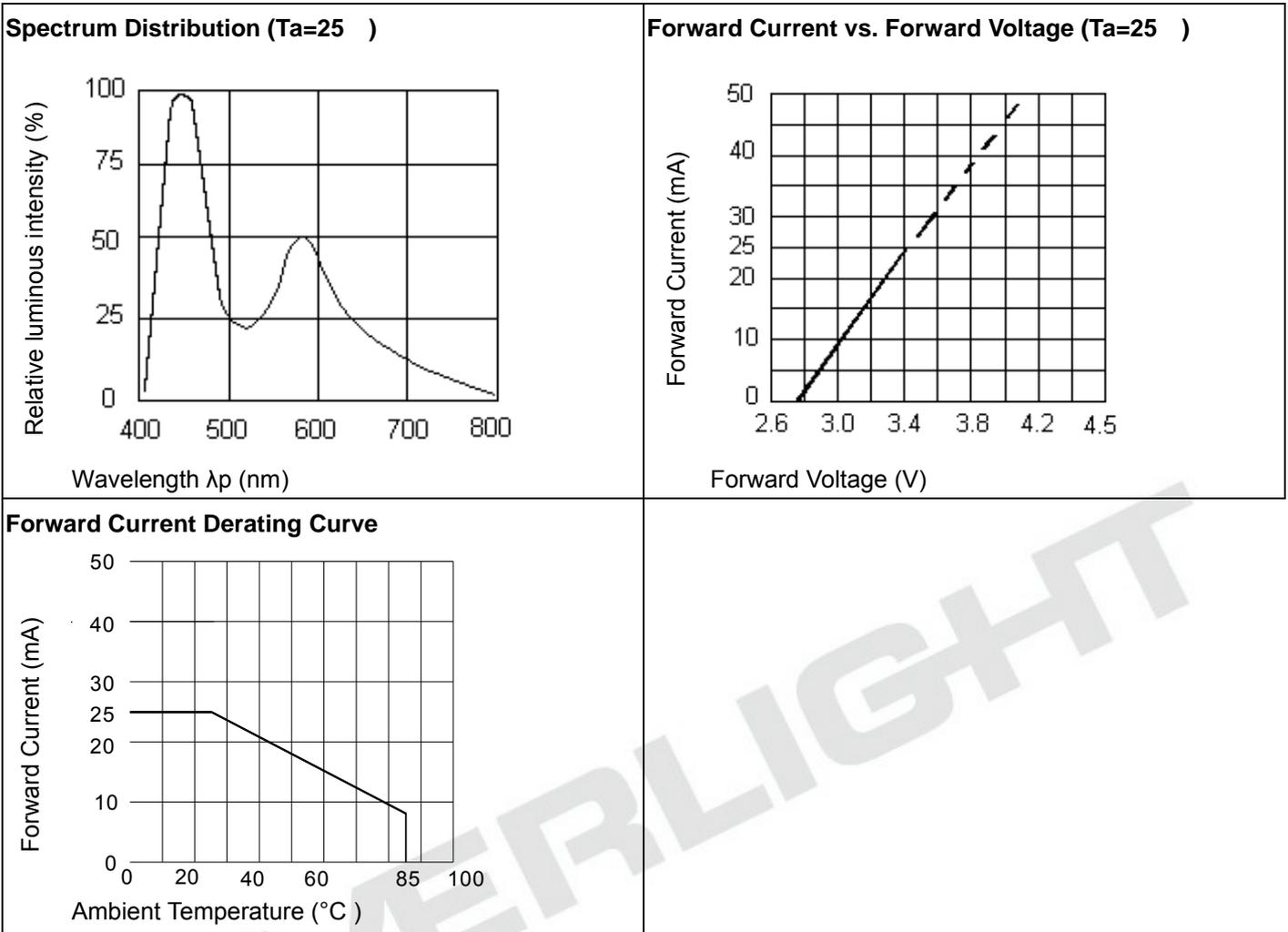
Electro-Optical Characteristics (Ta=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity ^{*1}	I_v	100	-----	195	mcd	$I_F=5mA$
Chromaticity Coordinates ^{*1}	x	-----	0.280	-----	-----	$I_F=5mA$
	y	-----	0.267	-----	-----	$I_F=5mA$
Forward Voltage ^{*1}	V_F	2.75	-----	3.20	V	$I_F=5mA$
Reverse Current	I_R	-----	-----	100	μA	$V_R=5V$

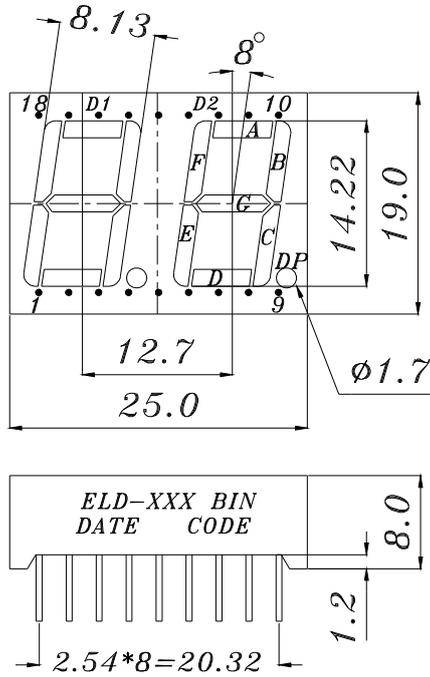
Note:

1. The data is SMD specification.
2. Tolerance of Luminous Intensity: $\pm 10\%$
3. Tolerance of Forward Voltage: $\pm 0.1V$

Typical Electro-Optical Characteristics Curves

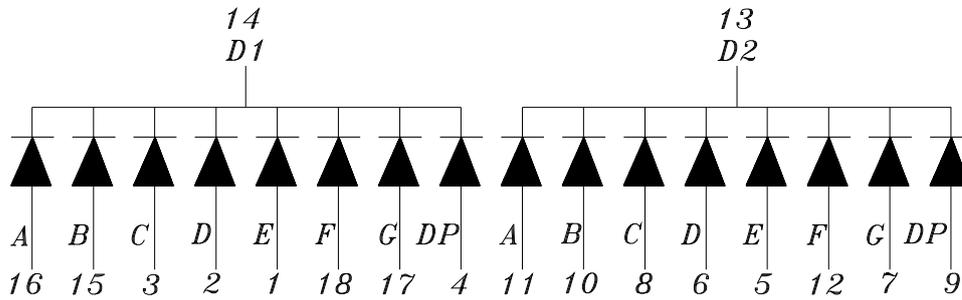


Package Dimension



COMMON CATHODE

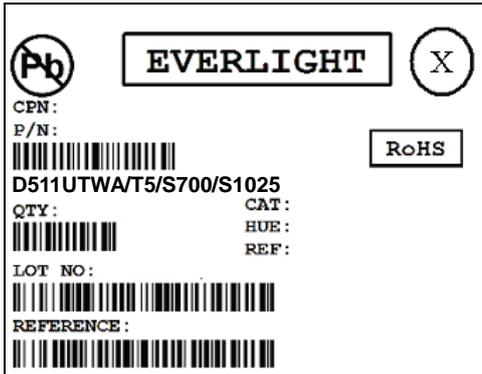
- 1 ANODE E D1
- 2 ANODE D D1
- 3 ANODE C D1
- 4 ANODE DP D1
- 5 ANODE E D2
- 6 ANODE D D2
- 7 ANODE G D2
- 8 ANODE C D2
- 9 ANODE DP D2
- 10 ANODE B D2
- 11 ANODE A D2
- 12 ANODE F D2
- 13 COMMON CATHODE D2
- 14 COMMON CATHODE D1
- 15 ANODE B D1
- 16 ANODE A D1
- 17 ANODE G D1
- 18 ANODE F D1



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

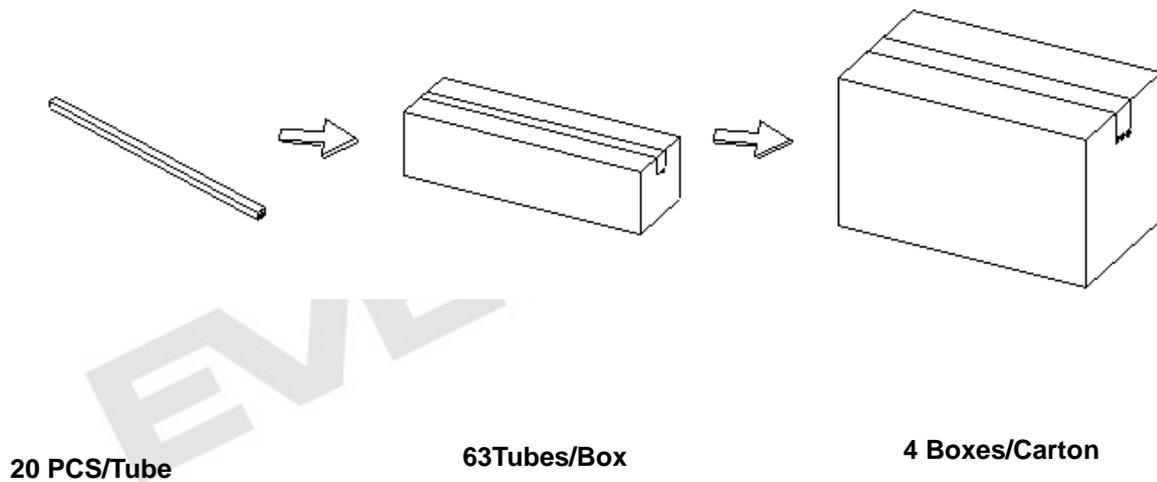
Packing Materials

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



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.