



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDD-305-007 REV: 1

0.3" Dual Digit Displays

PART NO. : ELD-305UBWB ECN : Page: 1/5

■ Features :

- Industrial standard size.
- Low power consumption.
- Categorized for luminous intensity.

■ Applications:

- Audio equipment
- Instrument panels
- Digital read out display

■ Descriptions :

- The ELD-305 series is a large 7.62 mm (0.3")high seven segment display designed for viewing distances up to 7 meters.
- These displays provide excellent reliability in bright ambient light.
- These devices are made with white segments and black surface.

PART NO.	Chip	
	Material	Emitted Color
ELD-305UBWB	GaN/SiC	Blue

OFFICE : 7c Building ,Lian Hua Port Industrial District, Lian Hua Shan Bonded Pricessing
Zone Pan Yu, Guang Zhou, China

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<http://www.everlight.com>

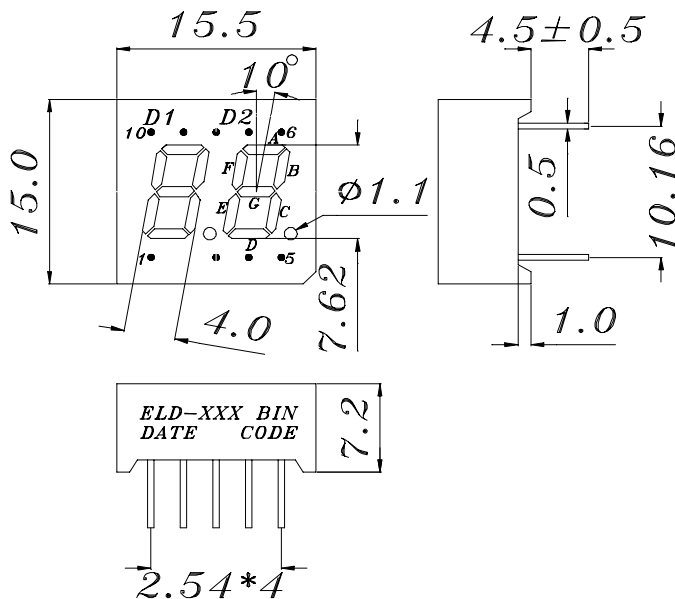
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0.3" Dual Digit Displays

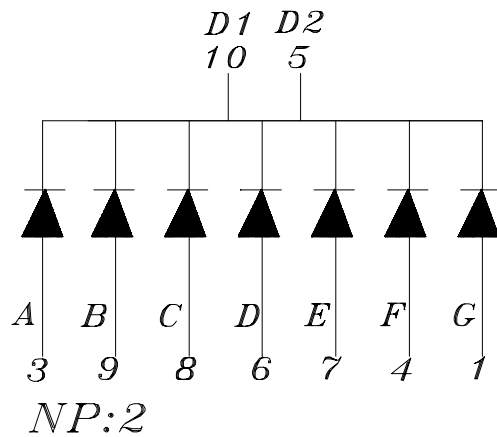
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■ Package Dimensions:



COMMON CATHODE

- 1 ANODE G
- 2 NO PIN
- 3 ANODE A
- 4 ANODE F
- 5 COMMON CATHODE D2
- 6 ANODE D
- 7 ANODE E
- 8 ANODE C
- 9 ANODE B
- 10 COMMON CATHODE D1



■ Notes:

- 1.All dimensions are in millimeters , tolerance is 0.25mm unless otherwise noted.
 - 2.Above specification may be changed without notice.
- Supplier will reserve authority on material change for above specification.



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■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Electrostatic Discharge	ESD	1000	V
Power Dissipation	Pd	140	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	70	mA

■ Electronic optical characteristics :

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	Iv	1.05	1.68	----	mcd	IF=10mA
	Per decimal point		----	----	----		
Peak Wavelength		λ p	----	428	----	nm	IF=20mA
Dominant Wavelength		λ d	----	466	----	nm	IF=20mA
Spectrum Radiation Bandwidth		△ λ	----	65	----	nm	IF=20mA
Forward Voltage		VF	----	3.8	4.5	V	IF=20mA
Reverse Current		IR	----	----	50	μ A	VR=5V



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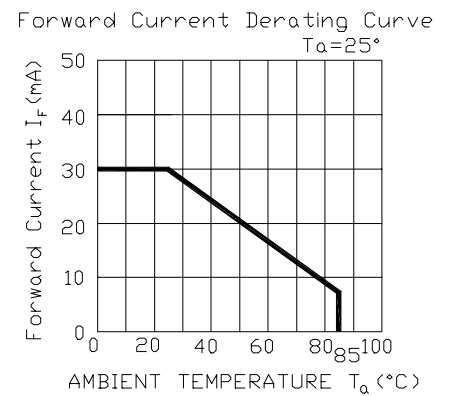
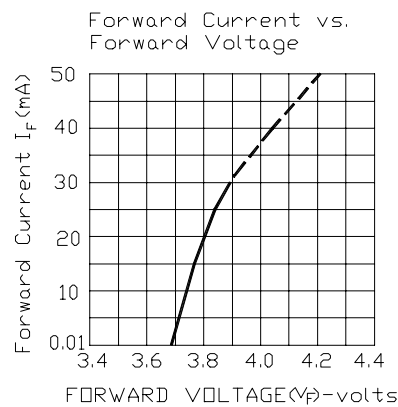
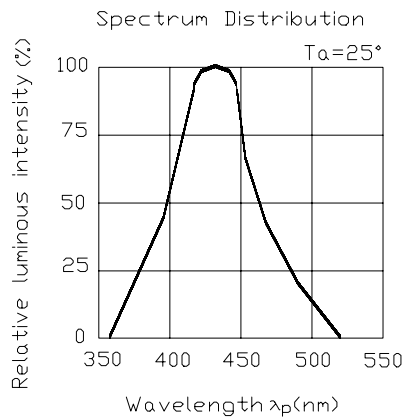
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Typical Electro-Optical Characteristic Curves:

UB





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Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260℃ ± 5 ℃	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85℃ 30min └ 5 min L : -55℃ 30min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100℃ 5min └ 10 sec L : -10℃ 5min	50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55℃	1000 HRS	76 PCS	0/1
6	DC Operating Life	IF = 10 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85℃ /85% RH	1000 HRS	76 PCS	0/1