



0.3" Dual Digit Displays

MODEL NO : ELD-316IDB 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-316 series is a large 7.62mm (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 red segments and black surface.

PART NO	Chip	
	Material	Emitted Color
ELD-316IDB	GaAsP/GaP	Hi-Eff Red

OFFICE : NO. 25, Lane 76, Sec. 3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.

TEL : 886-2-2267-2000, 2267-9936

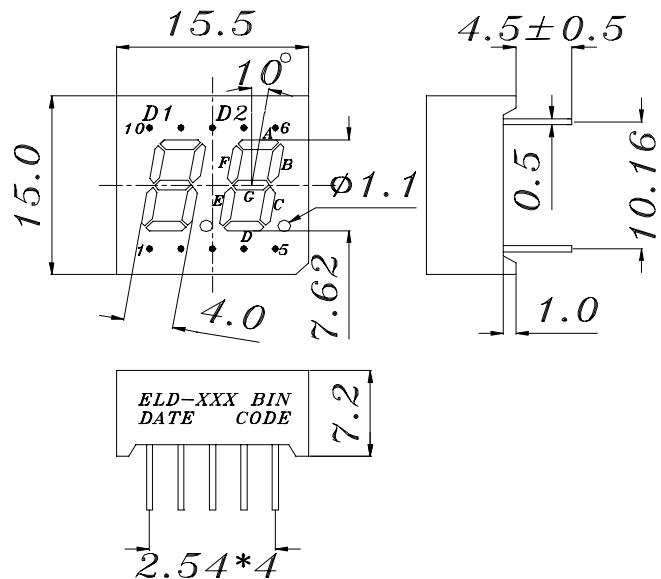
FAX : 886-2-2267-6244, 22676189, 22676306

<http://www.everlight.com>

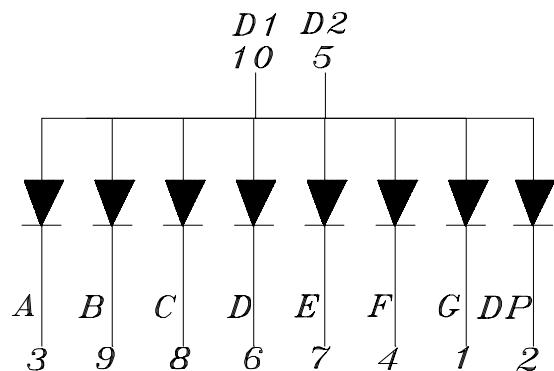
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■ Package Dimensions:



COMMON ANODE
1 CATHODE G
2 CATHODE DP
3 CATHODE A
4 CATHODE F
5 COMMON ANODE D2
6 CATHODE D
7 CATHODE E
8 CATHODE C
9 CATHODE B
10 COMMON ANODE 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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MODEL NO : ELD-316IDB ECN : Page: 3/5■ Absolute maximum ratings at $T_a = 25^\circ\text{C}$:

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Operating Temperature	Topr	-40 to +85	$^\circ\text{C}$
Storage Temperature	Tstg	-40 to +100	$^\circ\text{C}$
Soldering Temperature	Tsol	260 ± 5	$^\circ\text{C}$
Power Dissipation	Pd	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	160	mA

■ Electronic optical characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	0.45	1.20	---	mcd	IF=10mA
		0.15	0.4	---	mcd	
Peak Wavelength	λ_p	---	635	---	nm	IF=20mA
Dominant Wavelength	λ_d	---	625	---	nm	IF=20mA
Spectrum Radiation Bandwidth	$\Delta \lambda$	---	45	---	nm	IF=20mA
Forward Voltage	VF	1.7	2.0	2.4	V	IF=20mA
Reverse Current	IR	---	---	10	μA	VR=5V

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MODEL NO:

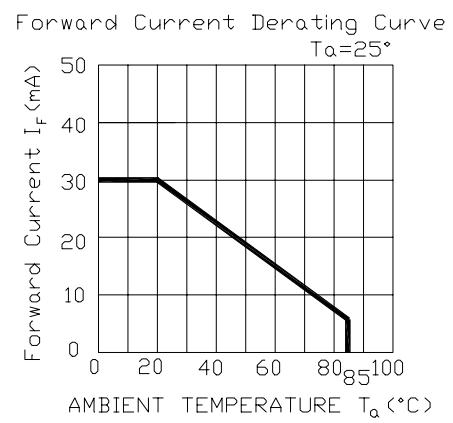
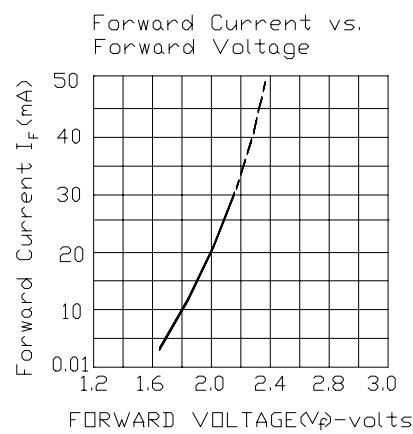
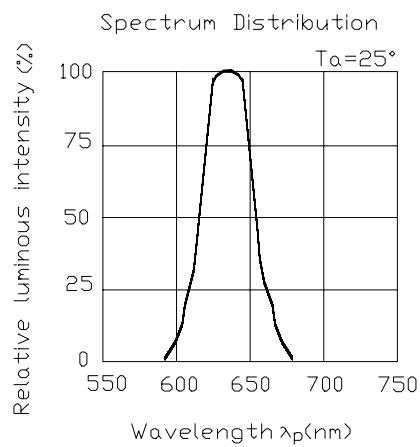
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■ Typical Electro-Optical Characteristic Curves:





EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDD-316-001 REV: 1.0

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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°C ± 5 °C	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85°C 30min ↓ 5 min L : -55°C 30min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ↓ 10 sec L : -10°C 5min	50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55°C	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°C/85% RH	1000 HRS	76 PCS	0/1