



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

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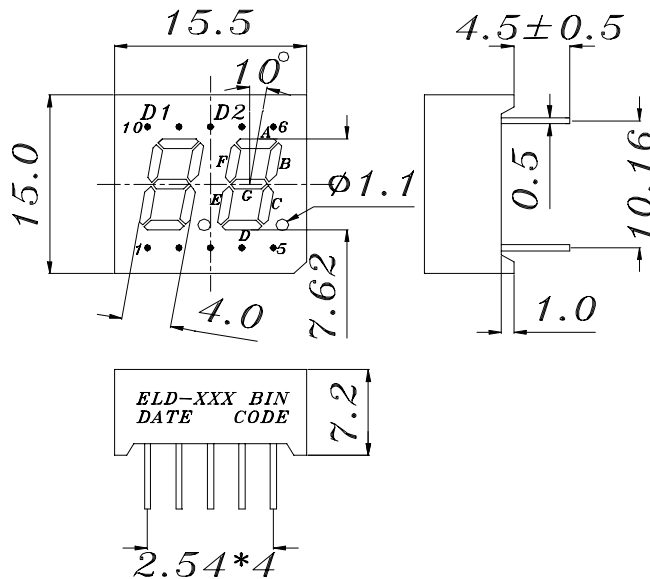
<http://www.everlight.com>



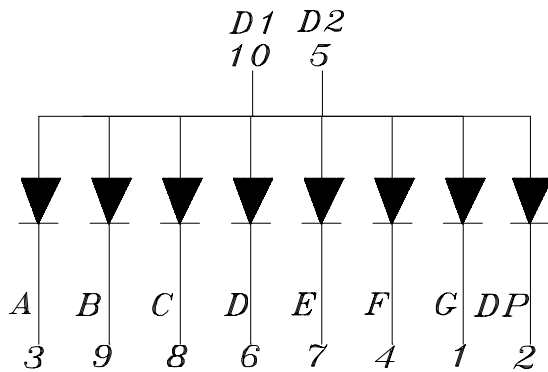
0.3" Dual Digit Displays

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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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Device Number : DDD-316-001 REV: 1.0

0.3" Dual Digit Displays

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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
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	Per segment	Iv	0.45	1.20	----	mcd	IF=10mA
	Per decimal point		0.15	0.4	----	mcd	
Peak Wavelength		λ p	----	635	----	nm	IF=20mA
Dominant Wavelength		λ d	----	625	----	nm	IF=20mA
Spectrum Radiation Bandwidth		△ λ	----	45	----	nm	IF=20mA
Forward Voltage		VF	1.7	2.0	2.4	V	IF=20mA
Reverse Current		IR	----	----	10	μ A	VR=5V



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Device Number : DDD-316-001

REV: 1.0

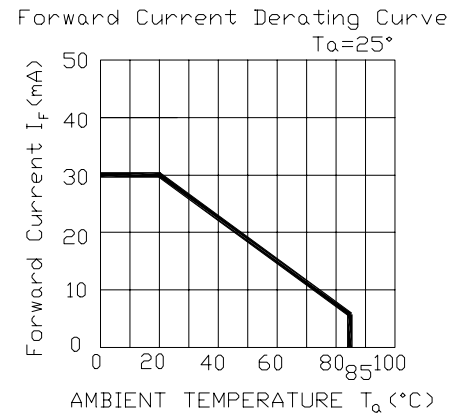
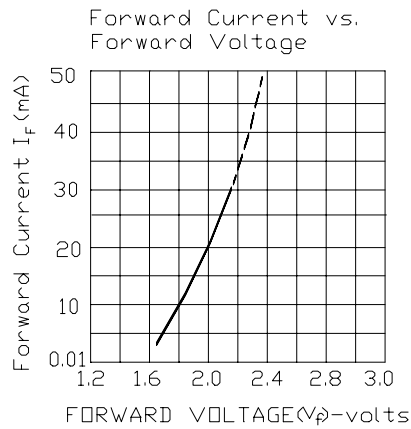
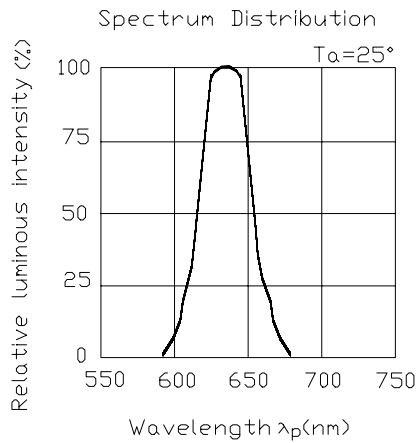
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ECN :

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■ Typical Electro-Optical Characteristic Curves:





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MODEL NO : ELD-316IDB ECN : Page: 5/5

■ 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