



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDD-518-041 REV: 1.0

0.56" Dual Digit Displays

MODEL NO : ELD-518GDB 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-518 series is a large 14.22mm (0.56")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 green segments and black surface.

PART NO	Chip	
	Material	Emitted Color
ELD-518GDB	GaP	Green

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T00273

<http://www.everlight.com>



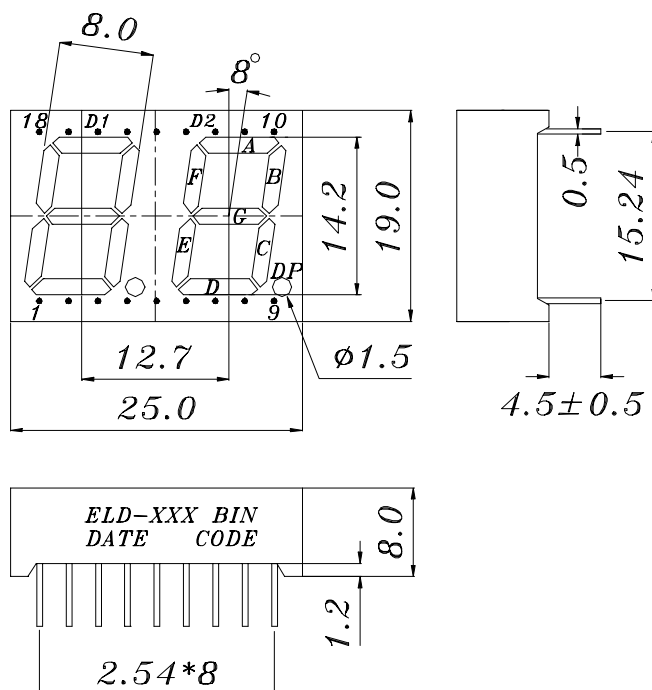
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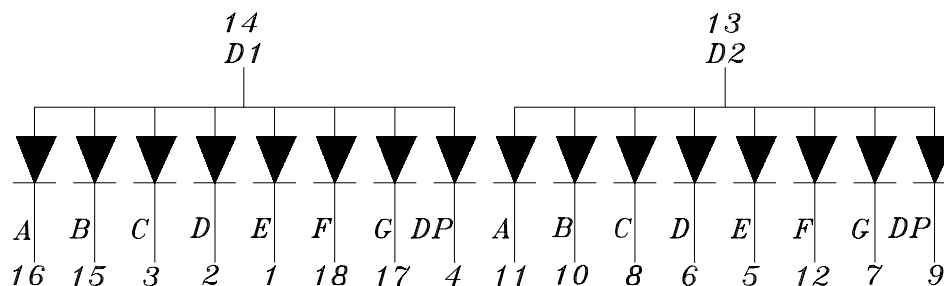
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■ Package Dimensions:



COMMON ANODE

1	CATHODE	E	D1
2	CATHODE	D	D1
3	CATHODE	C	D1
4	CATHODE	DP	D1
5	CATHODE	E	D2
6	CATHODE	D	D2
7	CATHODE	G	D2
8	CATHODE	C	D2
9	CATHODE	DP	D2
10	CATHODE	B	D2
11	CATHODE	A	D2
12	CATHODE	F	D2
13	COMMON ANODE		D2
14	COMMON ANODE		D1
15	CATHODE	B	D1
16	CATHODE	A	D1
17	CATHODE	G	D1
18	CATHODE	F	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
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	0.75	1.40	----	mcd	IF=10mA
	Per decimal point		0.25	0.35	----		
Peak Wavelength		λ p	----	565	----	nm	IF=20mA
Dominant Wavelength		λ d	----	570	----	nm	IF=20mA
Spectrum Radiation	Bandwidth	△ λ	----	30	----	nm	IF=20mA
Forward Voltage		VF	1.7	2.1	2.4	V	IF=20mA
Reverse Current		IR	----	----	10	μ A	VR=5V



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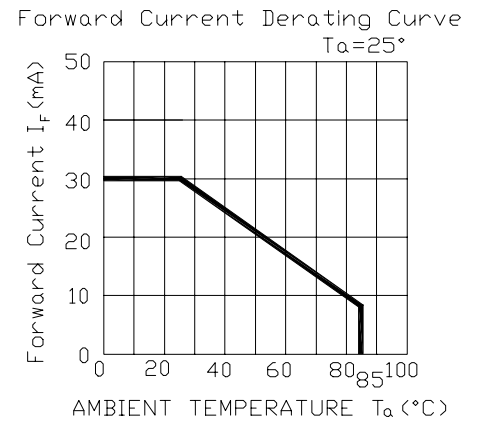
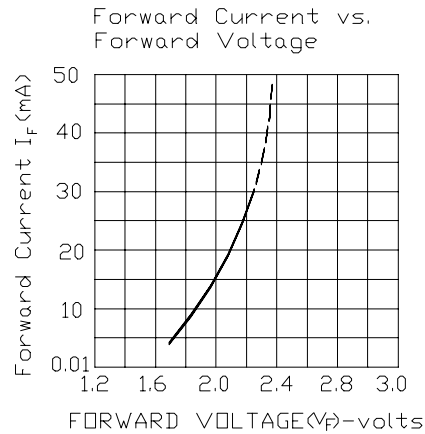
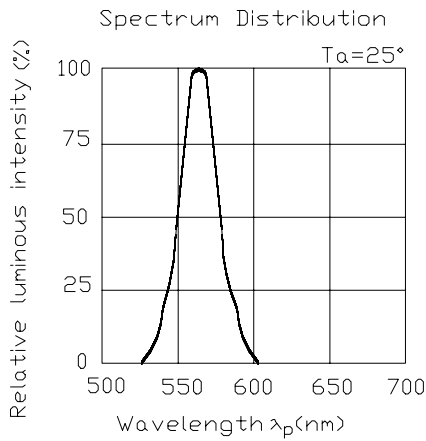
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Typical Electro-Optical Characteristic Curves:





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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