



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDD-566-002 REV: 1

0.52" Dual Digit Displays

PART NO. : FND5910/D566IDR/L18 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-566 series is a large 13.2 mm (0.52")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 red surface.

PART NO.	Chip	
	Material	Emitted Color
FND5910/D566IDR/L18	GaAsP/GaP	Hi-Eff Red

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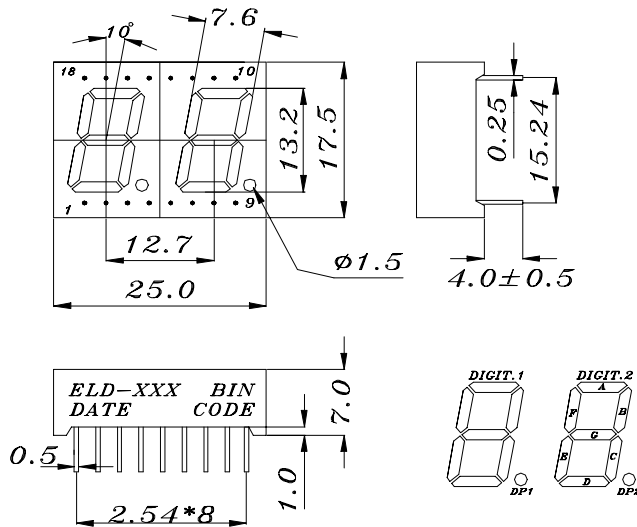
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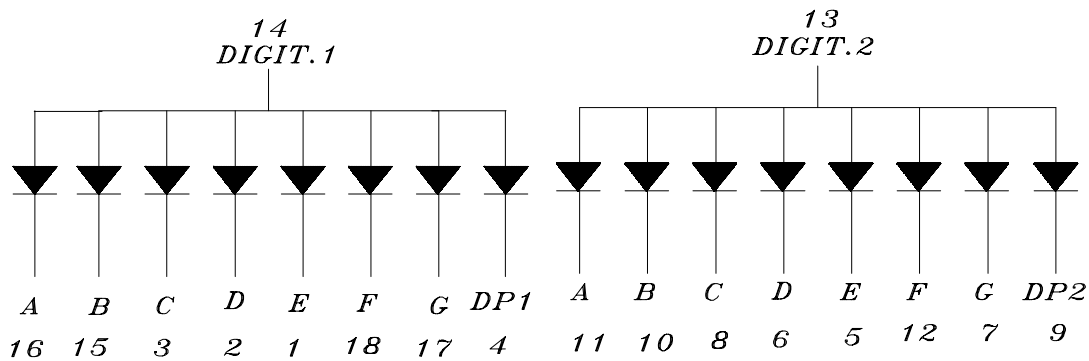
Page: 2/5

■ Package Dimensions:



COMMON ANODE

- 1 CATHODE E
- 2 CATHODE D
- 3 CATHODE C
- 4 CATHODE DP1
- 5 CATHODE E
- 6 CATHODE D
- 7 CATHODE G
- 8 CATHODE C
- 9 CATHODE DP2
- 10 CATHODE B
- 11 CATHODE A
- 12 CATHODE F
- 13 COMMON ANODE DIGIT.2
- 14 COMMON ANODE DIGIT.1
- 15 CATHODE B
- 16 CATHODE A
- 17 CATHODE G
- 18 CATHODE F



■ 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	2.0	----	mcd	IF=10mA
	Per decimal point		0.3	0.6	----		
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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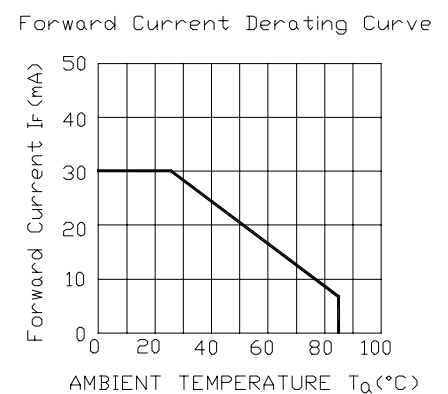
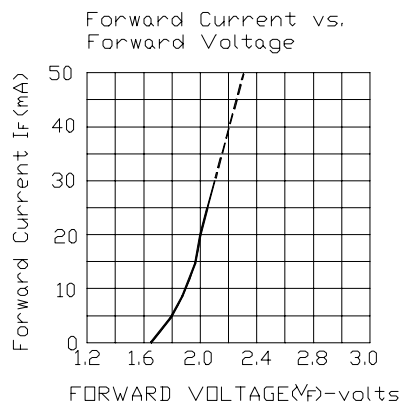
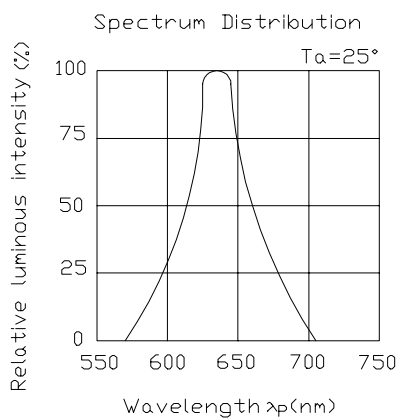
PART NO. : FND5910/D566IDR/L18

ECN :

Page: 4/5

Typical Electro-Optical Characteristic Curves:

CHIP Material:GaAsP/GaP
Emitted Color:Hi-Eff Red/Orange





0.52" Dual Digit Displays

PART NO.: FND5910/D566IDR/L18 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