



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDT-416-013 REV: 1

0.4" Triple Digit Displays

PART NO. ELT-416EWA/S164

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■ Features :

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

■ Applications:

- Audio equipment
- Instrument panels
- Digital read out display

■ Descriptions :

- The ELT- 416 series is a large 10.2 mm
(0.4")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 gray surface.

PART NO.	Chip	
	Material	Emitted Color
ELT-416EWA/S164	GaAsP/GaP	Orange

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

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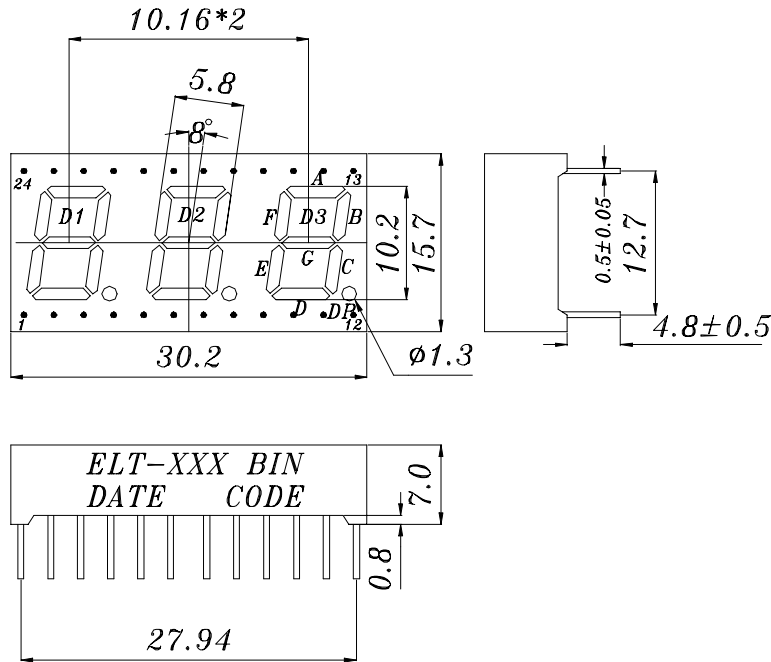
<http://www.everlight.com>

T02300

0.4" Triple Digit Displays

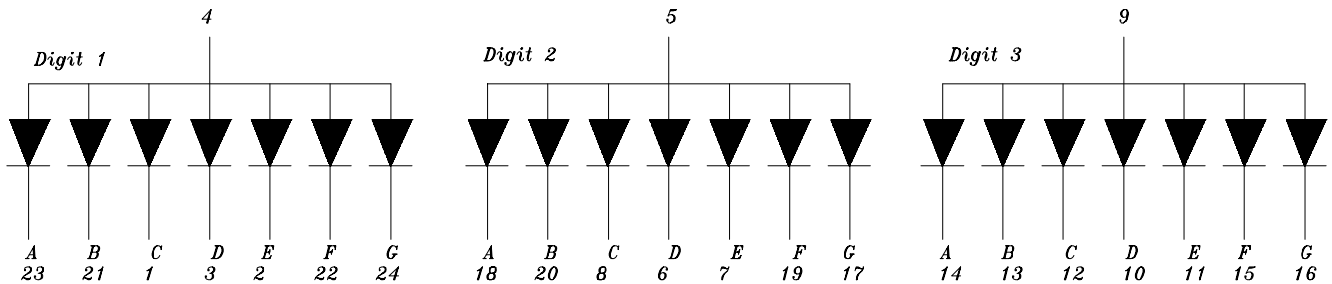
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Package Dimensions:



COMMON ANODE

1	CATHODE	D	Digit 1
2	CATHODE	E	Digit 1
3	CATHODE	D	Digit 1
4	COMMON ANODE	Digit 1	
5	COMMON ANODE	Digit 2	
6	CATHODE	D	Digit 2
7	CATHODE	E	Digit 2
8	CATHODE	C	Digit 2
9	COMMON ANODE	Digit 3	
10	CATHODE	D	Digit 3
11	CATHODE	E	Digit 3
12	CATHODE	C	Digit 3
13	CATHODE	B	Digit 3
14	CATHODE	A	Digit 3
15	CATHODE	F	Digit 3
16	CATHODE	G	Digit 3
17	CATHODE	G	Digit 2
18	CATHODE	A	Digit 2
19	CATHODE	F	Digit 2
20	CATHODE	B	Digit 2
21	CATHODE	B	Digit 1
22	CATHODE	F	Digit 1
23	CATHODE	A	Digit 1
24	CATHODE	G	Digit 1



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	1.2	----	mcd	IF=10mA
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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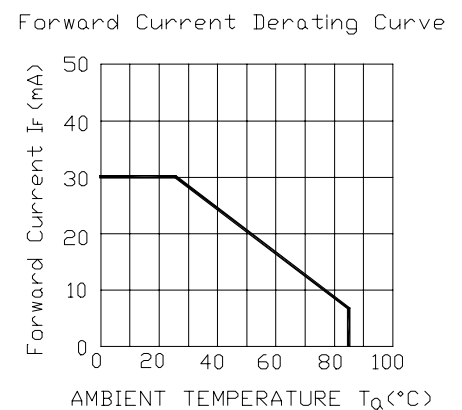
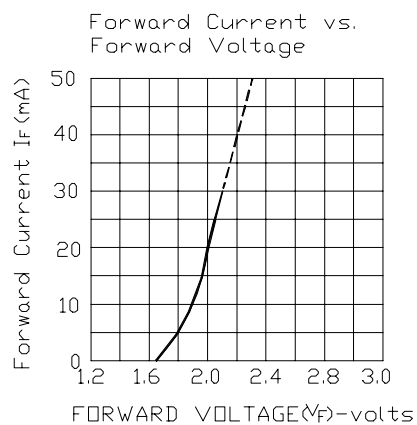
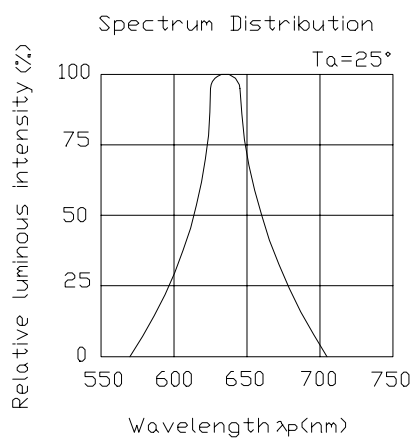
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Typical Electro-Optical Characteristic Curves:

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





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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