



EVERLIGHT ELECTRONICS CO.,LTD.

Technical Data Sheet 0.56" Triple Digit Displays

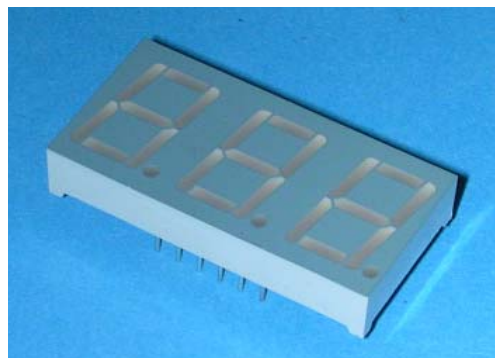
ELT-512EWA

■ Features :

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

■ Descriptions :

- The ELT-512 series is a large 14.22 mm (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 white segments and gray surface.



■ Applications :

- Audio equipment
- Instrument panels
- Digital read out display

PART NO.	Chip	
	Material	Emitted Color
ELT-512EWA	GaAsP/GaP	Orange

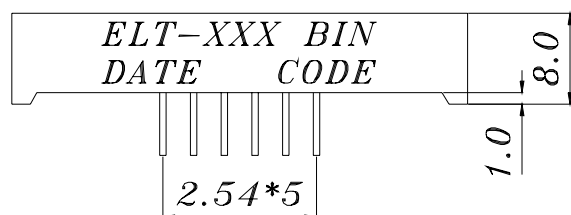
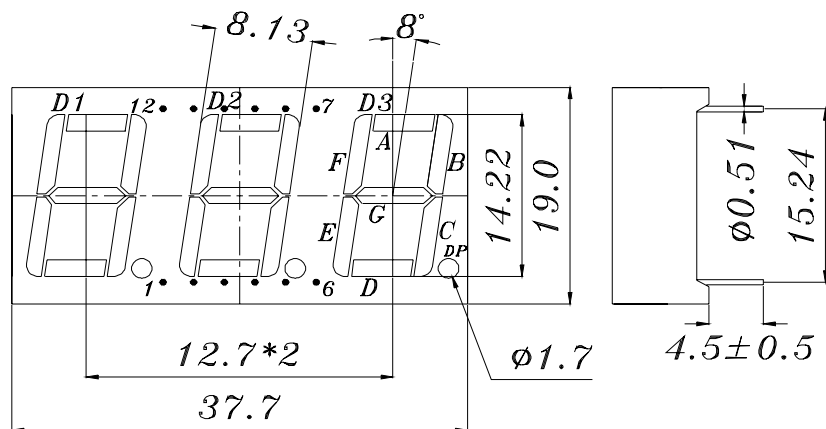


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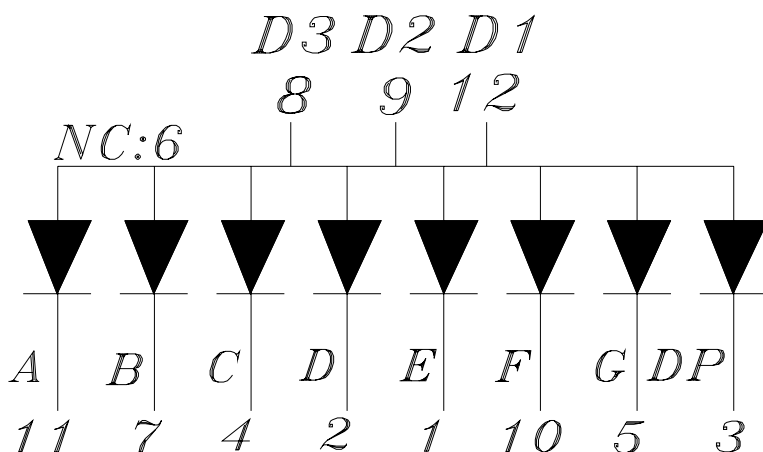
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ELT-512EWA

Package Dimensions



<i>COMMON ANODE</i>	
1	<i>CATHODE E</i>
2	<i>CATHODE D</i>
3	<i>CATHODE DP</i>
4	<i>CATHODE C</i>
5	<i>CATHODE G</i>
6	<i>NO CONNECT</i>
7	<i>CATHODE B</i>
8	<i>COMMON ANODE D3</i>
9	<i>COMMON ANODE D2</i>
10	<i>CATHODE F</i>
11	<i>CATHODE A</i>
12	<i>COMMON ANODE D1</i>



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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ELT-512EWA

■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	30	mA
Operating Temperature	T _{opr}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +100	°C
Soldering Temperature	T _{sol}	260 ± 5	°C
Power Dissipation	P _d	100	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	I _{F(Peak)}	160	mA

■ Electronic optical characteristics :

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	I _v	1.05	2.30	----	mcd	I _F =10mA
	Per decimal point		0.3	0.6	----	mcd	I _F =10mA
Peak Wavelength		λ _p	----	635	----	nm	I _F =20mA
Dominant Wavelength		λ _d	----	625	----	nm	I _F =20mA
Spectrum Radiation Bandwidth		Δλ	----	45	----	nm	I _F =20mA
Forward Voltage		V _F	1.7	2.0	2.4	V	I _F =20mA
Reverse Current		I _R	----	----	10	μA	V _R =5V



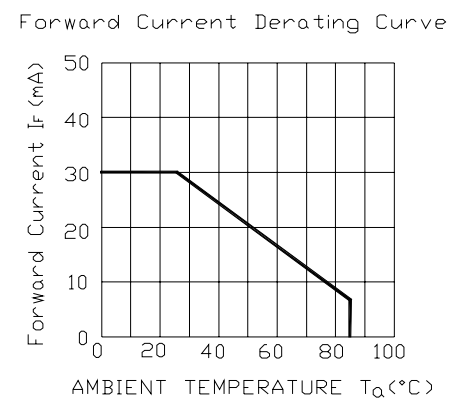
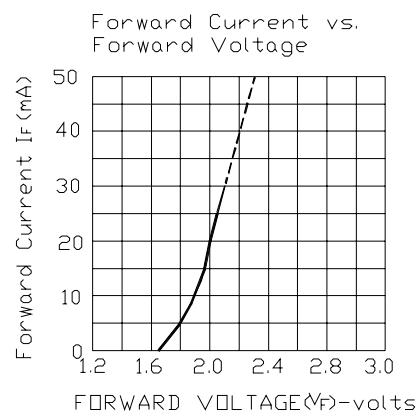
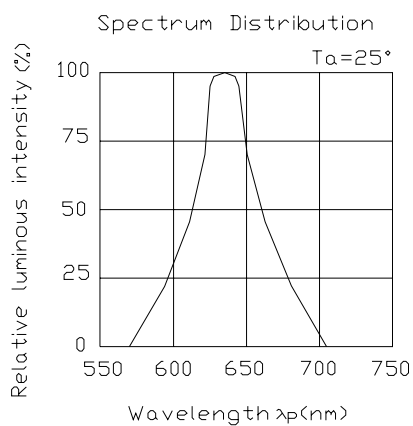
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ELT-512EWA

■ Typical Electro-Optical Characteristic Curves:

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




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ELT-512EWA
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	DataSheet4U.com 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