



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDT-511-013 REV: 1

0.56" Triple Digit Displays

PART NO. : ELT-511EWA/S27 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 ELT-511 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 white segments and gray surface.

PART NO.	Chip	
	Material	Emitted Color
ELT-511EWA	GaAsP/GaP	Orange

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TEL : 886-2-2267-2000,2267-9936

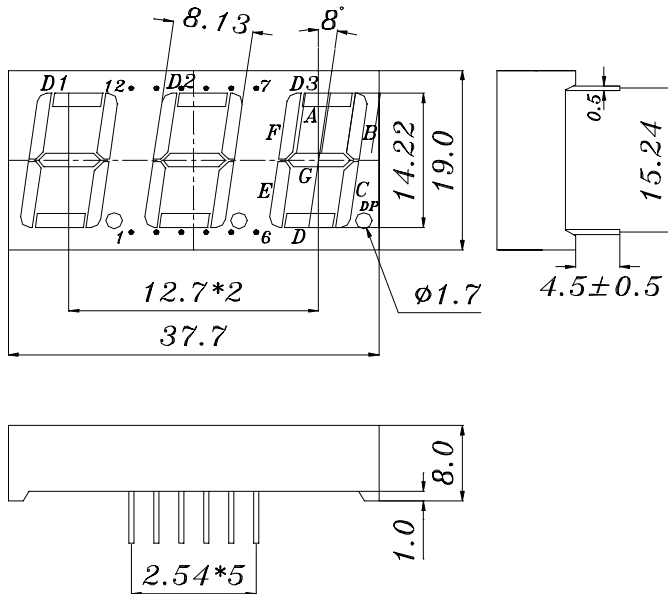
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<http://www.everlight.com>



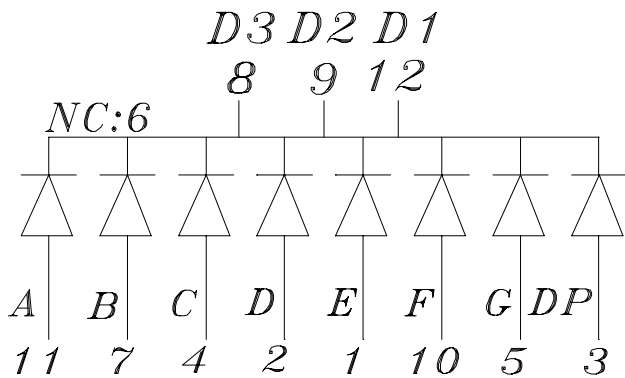
0.56" Triple Digit Displays

■ Package Dimensions:



COMMON CATHODE

- 1 ANODE E
- 2 ANODE D
- 3 ANODE DP
- 4 ANODE C
- 5 ANODE G
- 6 NO CONNECT
- 7 ANODE B
- 8 COMMON CATHODE D3
- 9 COMMON CATHODE D2
- 10 ANODE F
- 11 ANODE A
- 12 COMMON CATHODE 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	1.40	2.8	4.5	mcd	IF=10mA
	Per decimal point		0.3	0.6	1.2		
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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■ Typical Electro-Optical Characteristic Curves:

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

Spectrum Distribution
 $T_a=25^\circ$

Wavelength λ_p (nm)	Relative luminous intensity (%)
550	0
600	25
630	100
650	75
700	25
750	0

Forward Current vs. Forward Voltage

FORWARD VOLTAGE(Vf)-volts	Forward Current If (mA)
1.2	0
1.6	0
2.0	10
2.4	50

Forward Current Derating Curve

AMBIENT TEMPERATURE T_a (°C)	Forward Current If (mA)
0	30
25	30
50	20
75	10
90	0

