



## 0.56" Triple Digit Displays

PART NO. : ELT-512HDB 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-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 red segments and black surface.

PART NO	Chip	
	Material	Emitted Color
ELT-512HDB	GaP	Bright Red

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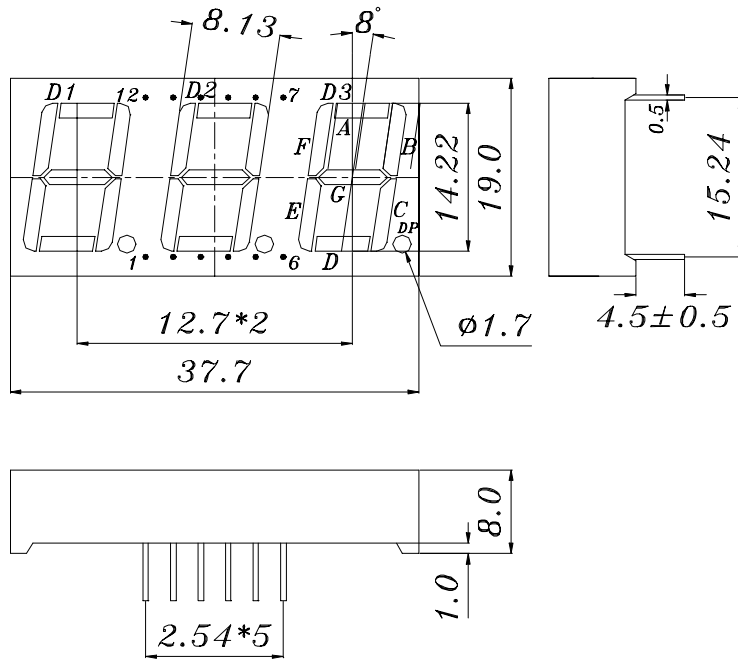
<http://www.everlight.com>



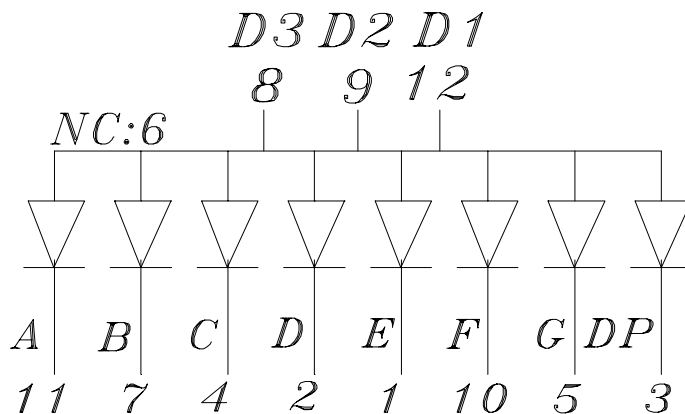
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■ Package Dimensions:



*COMMON ANODE*  
1 CATHODE E  
2 CATHODE D  
3 CATHODE DP  
4 CATHODE C  
5 CATHODE G  
6 NO CONNECT  
7 CATHODE B  
8 COMMON ANODE D3  
9 COMMON ANODE D2  
10 CATHODE F  
11 CATHODE A  
12 COMMON ANODE 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.



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDT-512-009 REV: 1.1

0.56" Triple Digit Displays

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■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	15	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	45	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	50	mA

■ Electronic optical characteristics :

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	Iv	0.28	0.56	----	mcd	IF=10mA
	Per decimal point		0.10	0.15	----		
Peak Wavelength		λ p	----	697	----	nm	IF=10mA
Dominant Wavelength		λ d	----	650	----	nm	IF=10mA
Spectrum Radiation Bandwidth		△ λ	----	90	----	nm	IF=10mA
Forward Voltage		VF	1.5	2.0	2.4	V	IF=10mA
Reverse Current		IR	----	----	10	μ A	VR=5V

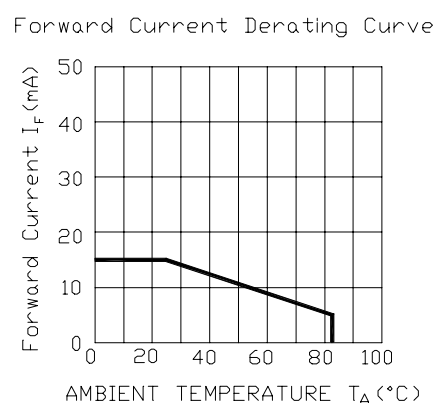
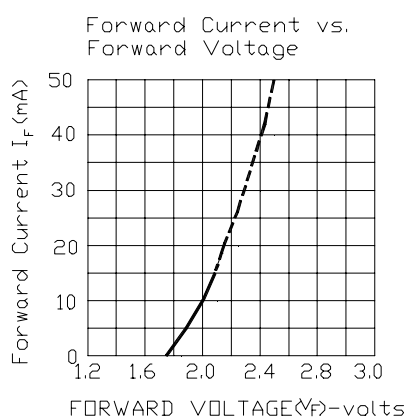
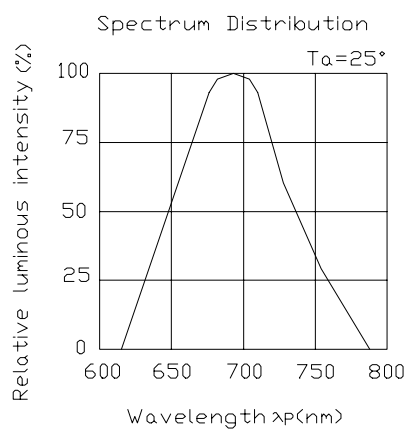


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## Typical Electro-Optical Characteristic Curves:

CHIP Material:Gap  
Emitted Color:Bright Red





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Device Number : DDT-512-009 REV: 1.1

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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