



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDT-512-049 REV: 1.0

0.56" Tripple Digit Display

MODEL NO : ELT-512SRDB/S119 ECN : _____ Page: 1/5

■ Features :

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

■ Applications;

- Audio equipment
- Instrument panels
- Digital read out display

■ Description :

- The ELT-512 series is a large 14.2mm (0.56")high seven segment display design for viewing distances up to 7 meters.
- These displays provide excellent reliability in bright ambient light.
- These device is made with red segments and black surface.

PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
ELT-512SRDB/S119	GaAlAs	Super Red	C.A.

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

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

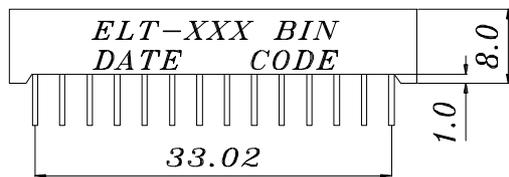
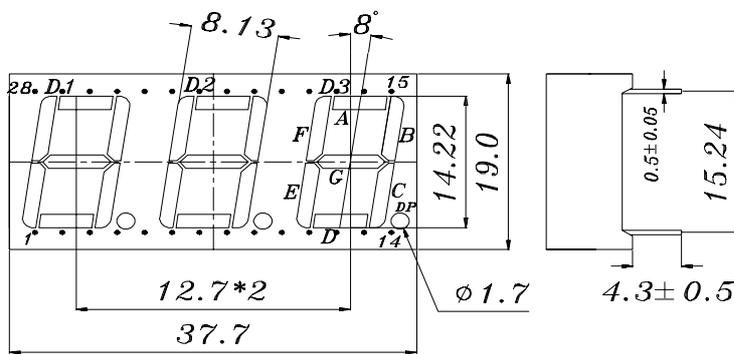
FAX : 886-2-2267-6244,22676189,22676306

<http://www.everlight.com>

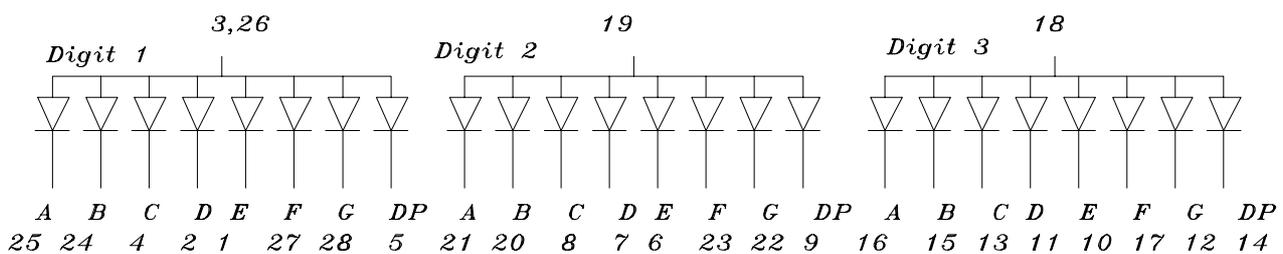


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Package Dimension:



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



NOTES:

1. All dimensions are 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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MODEL NO : ELT-512SRDB/S119 ECN : _____ Page: 3/5**■ Absolute Maximum Ratings at Ta = 25°C :**

Parameter	Symbol	Rating	Unit
Reverse Voltage	Vr	5	V
Forward Current	If	40	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	110	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	180	mA

■ Electronic Optical Characteristics :

Parameter		Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous Intensity	Per segment	Iv	4.0	6.0	----	mcd	If=10mA
	Per decimal point		1.40	2.80	----		
Peak Wavelength		λp	----	660	----	nm	If=20mA
Dominant Wavelength		λd	----	643	----	nm	If=20mA
Spectrum Rediation Bandwidth		$\Delta \lambda$	----	20	----	nm	If=20mA
Forward Voltage		Vf	1.5	1.7	2.4	V	If=20mA
Reverse Current		Ir	----	----	10	μA	Vr=5V



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■ Reliability test item and condition:

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

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