


EVERLIGHT ELECTRONICS CO.,LTD.

 Device Number : DDS-512-029 REV: 1.2

0.56" Single Digit Displays

 MODEL NO : ELS-512EWA 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 ELS-512 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		C.C. or C.A.
	Material	Emitted Color	
ELS-512EWA	GaAsP/GaP	Orange	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

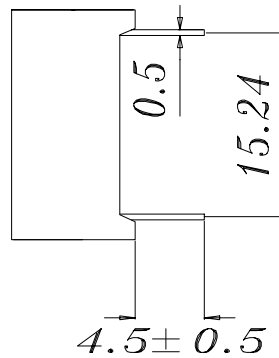
FAX : 886-2-2267-6244, 22676189, 22676306

<http://www.everlight.com>




0.56" Single Digit Displays

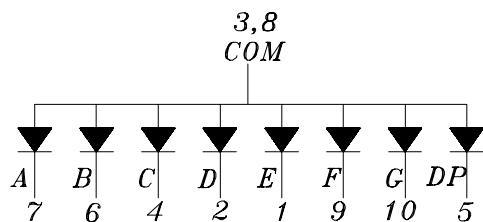
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COMMON ANODE
1 CATHODE E
2 CATHODE D
3 COMMON ANODE
4 CATHODE C
5 CATHODE DP
6 CATHODE B
7 CATHODE A
8 COMMON ANODE
9 CATHODE F
10 CATHODE G

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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℃ :

Parameter	Symbol	Rating	Unit
Reverse Voltage	Vr	5	V
Forward Current	If	30	mA
Operating Temperature	Topr	-40 to +85	℃
Storage Temperature	Tstg	-40 to +100	℃
Soldering Temperature	Tsol	260 ± 5	℃
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	2.00	----	mcd	If=10mA
	Per decimal point		0.25	0.50	----		
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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■ 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



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Typical Electro-Optical Characteristic Curves:

