



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDD-525-043 REV: 1.0

0.54" Dual Digit Alphanumeric Displays

MODEL NO : ELD-525SURWA/S530-A2 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 ELD-525 series is a large 13.6mm (0.54")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 white segments and gray surface.

PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
ELD-525SURWA/S530-A2	AlGaInP	Hyper Red	C.C.

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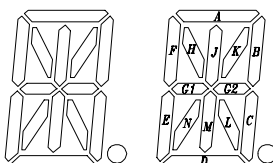
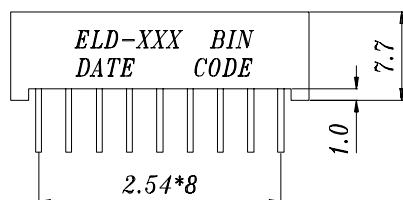
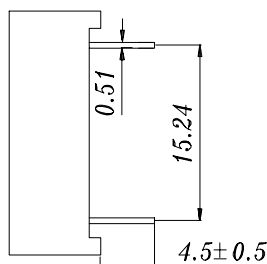
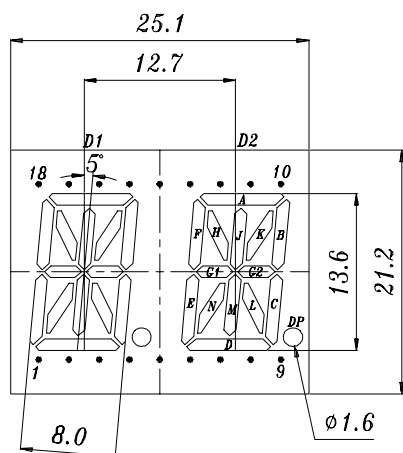
<http://www.everlight.com>



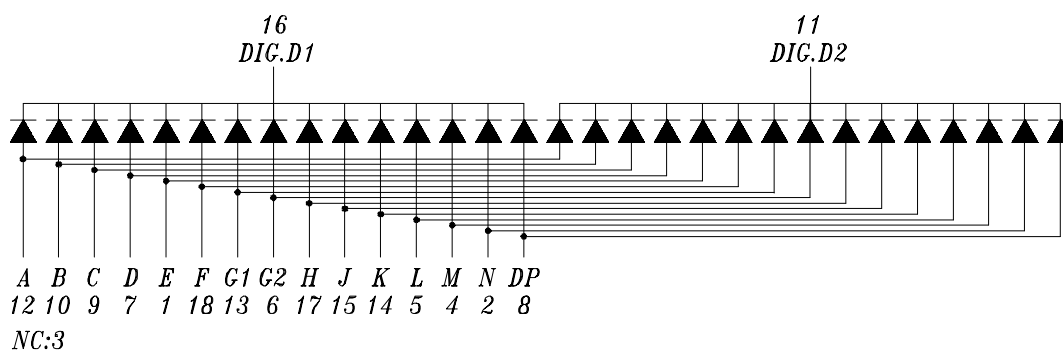
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■ Package Dimension:



- COMMON CATHODE
- 1 ANODE E
 - 2 ANODE N
 - 3 NO CONNECT
 - 4 ANODE M
 - 5 ANODE L
 - 6 ANODE G2
 - 7 ANODE D
 - 8 ANODE DP
 - 9 ANODE C
 - 10 ANODE B
 - 11 COMMON CATHODE DIG.2
 - 12 ANODE A
 - 13 ANODE G1
 - 14 ANODE K
 - 15 ANODE J
 - 16 COMMON CATHODE DIG.1
 - 17 ANODE H
 - 18 ANODE F



■ 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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■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _r	5	V
Forward Current	I _f	25	mA
Operating Temperature	T _{opr}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +100	°C
Soldering Temperature	T _{sol}	260 ± 5	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	P _d	60	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	I _v	0.45	1.5	----	mcd	If=2mA
	segment		4.0	9.9	----	mcd	If=10mA
	Per		0.11	0.75	----	mcd	If=2mA
	decimal point		1.40	5.60	----	mcd	If=10mA
Peak Wavelength		λ _p	----	632	----	nm	If=20mA
Dominant Wavelength		λ _d	----	624	----	nm	If=20mA
Spectrum Radiation Bandwidth		△λ	----	20	----	nm	If=20mA
Forward Voltage		V _f	----	2.0	2.4	V	If=20mA
Reverse Current		I _r	----	----	10	μA	V _r =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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Typical Electro-Optical Characteristic Curves:

