



0.56" Single Digit Displays

MODEL NO : ELS-512SURWA/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

■ 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-512SURWA/S530-A2	AlGaInP	Hyper Red	C.A.

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<http://www.everlight.com>



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDS-512-032

REV: 1.1

0.56" Single Digit Displays

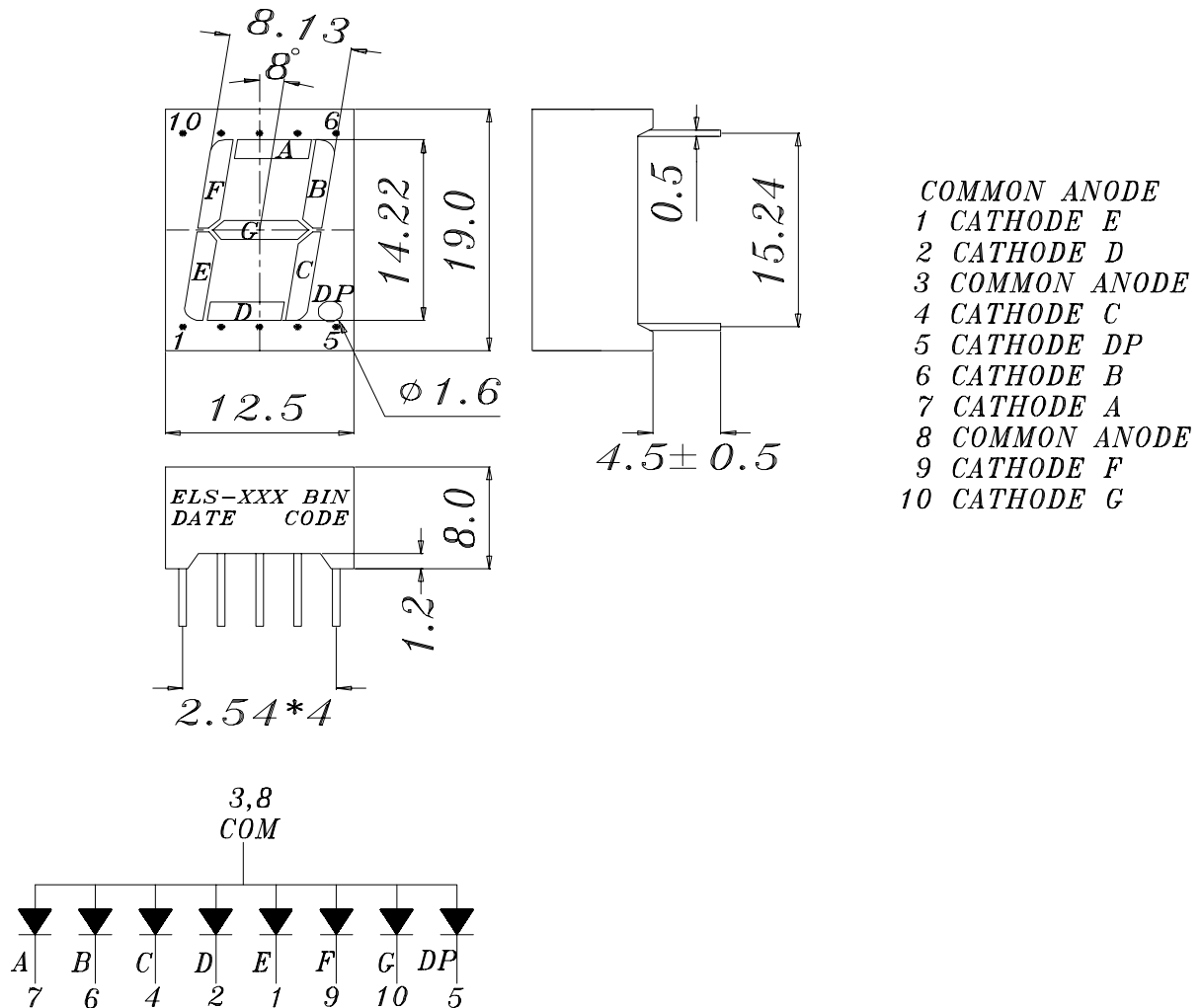
MODEL NO : ELS-512SURWA/S530-A2

ECN :

Page:

2/5

Package Dimensions:



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	25	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	160	mA

■ Electronic optical characteristics :

Parameter		Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous	Per	Iv	0.45	1.7	----	mcd	If=2mA
	segment		4.00	11.1	----	mcd	If=10mA
Intensity	Per		0.18	0.50	----	mcd	If=2mA
	decimal point		1.40	4.00	----	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		Vf	----	2.0	2.4	V	If=20mA
Reverse Current		Ir	----	----	10	μ A	Vr=5V



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Page: 4/5

Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260℃ ± 5 ℃	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85℃ 30min ∫ 5 min L : -55℃ 30min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100℃ 5min ∫ 10 sec L : -10℃ 5min	50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55℃	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℃/85% RH	1000 HRS	76 PCS	0/1



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Typical Electro-Optical Characteristic Curves:

