



0.56" Single Digit Displays

MODEL NO : ELS-511UYOWA/S530-A2ECN : 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-511 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-511UYOWA/S530-A2	AlGaInP	Super Yellow Orange	C.C.

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>



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDS-511-027

REV: 1.1

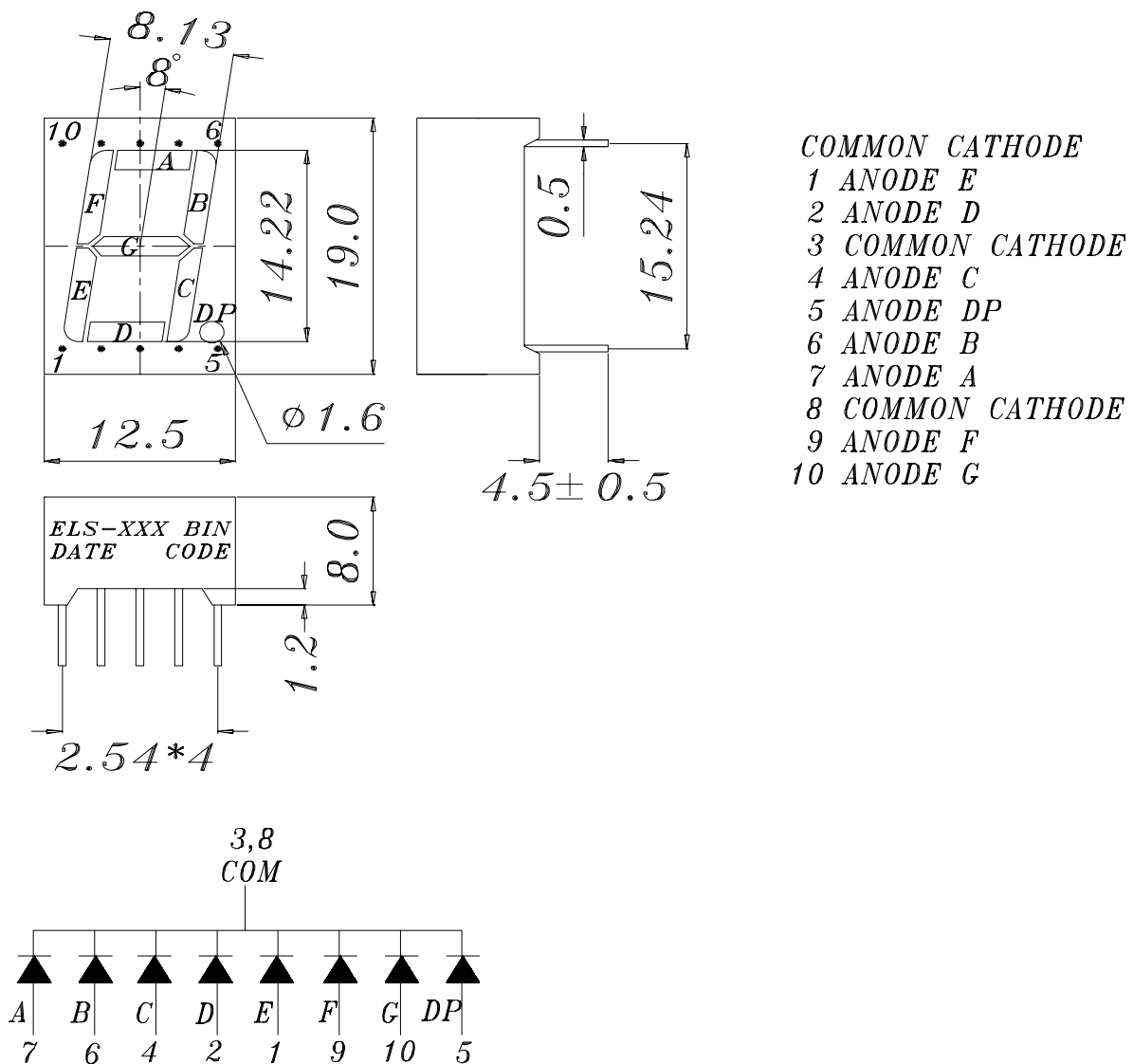
0.56" Single Digit Displays

MODEL NO : ELS-511UYOWA/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.



0.56" Single Digit Displays

MODEL NO : ELS-511UYOWA/S530-A2ECN : Page: 3/5

■ 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 segment	I _v	0.75	2.2	----	mcd	I _f =2mA
			5.60	14.5	----	mcd	I _f =10mA
	Per decimal point		0.28	0.75	----	mcd	I _f =2mA
			2.80	5.60	----	mcd	I _f =10mA
Peak Wavelength		λ _p	----	611	----	nm	I _f =20mA
Dominant Wavelength		λ _d	----	605	----	nm	I _f =20mA
Spectrum Radiation Bandwidth		△λ	----	17	----	nm	I _f =20mA
Forward Voltage		V _f	----	2.0	2.4	V	I _f =20mA
Reverse Current		I _r	----	----	10	μA	V _r =5V



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDS-511-027 REV: 1.1

0.56" Single Digit Displays

MODEL NO : ELS-511UYOWA/S530-A2 ECN : 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

--



0.56" Single Digit Displays

MODEL NO: ELS-511UYOWA/S530-A2ECN : Page: 5/5

Typical Electro-Optical Characteristic Curves:

