



Device Number :

DDS-511-023

REV:

1.0

0.56" Single Digit Display

MODEL NO : ELS-511SURWA/S530-A2

ECN :

Page:

1/5

■ Features :

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

■ Applications:

- Audio equipment
- Instrument panels
- Digital readout display

■ Description :

- The ELS-511series is a large 14.22mm (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 white segments and gray surface.

PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
ELS-511SURWA/S530-A2	AlGaInP	Hyper Red	C.C.

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<http://www.everlight.com>

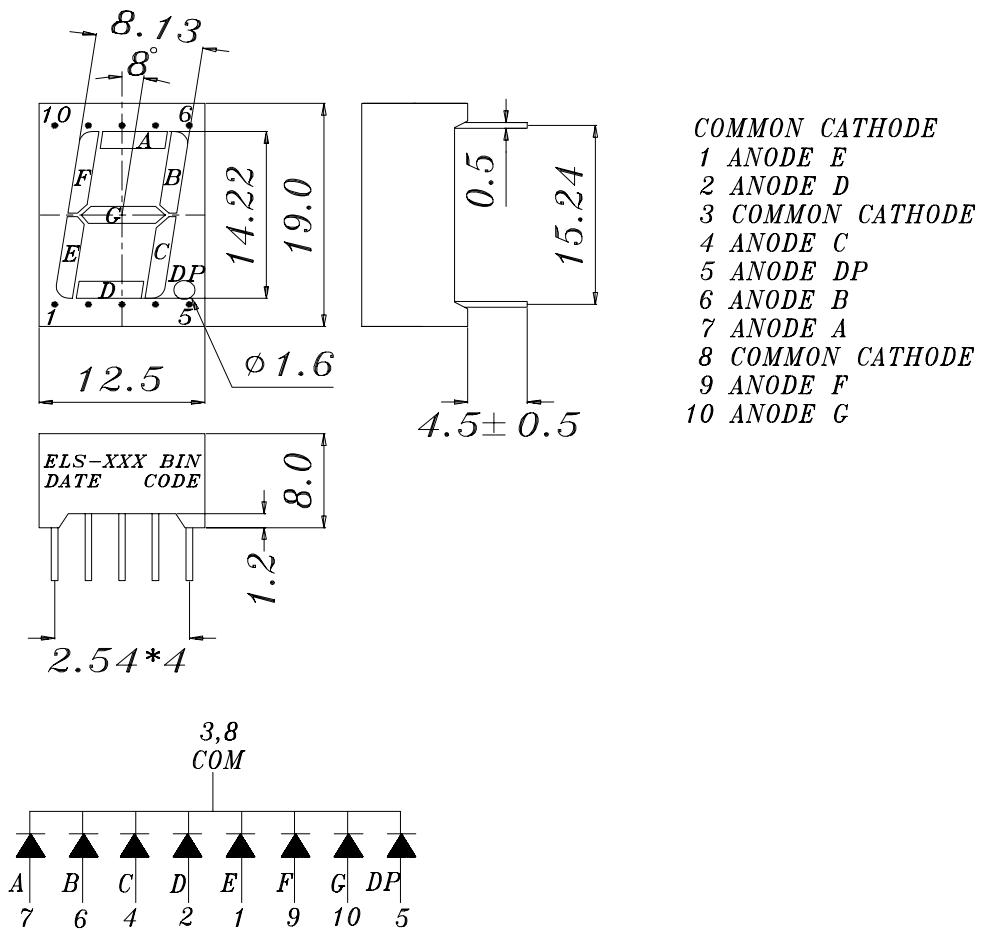
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Page: 2/5**■ Package Dimension:****■ NOTES:**

- 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 : ELS-511SURWA/S530-A2 ECN : _____ Page: 3/5

■ 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
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 Intensity	Per segment	Iv	0.45	1.7	----	mcd If=2mA
			0.18	0.28	----	
Luminous Intensity	Per segment	Iv	4.0	11.4	----	mcd If=10mA
	Per decimal point		1.6	2.5	----	
Peak Wavelength	λ p	---	632	----	nm	If=20mA
Dominant Wavelength	λ d	---	624	----	nm	If=20mA
Spectrum Rediation 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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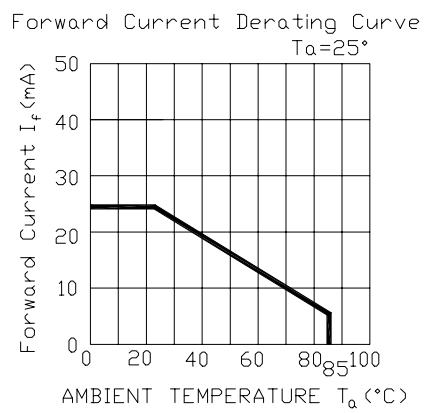
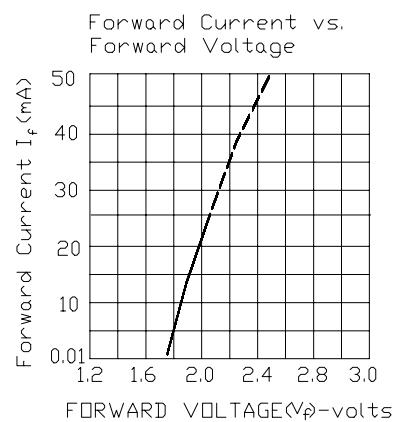
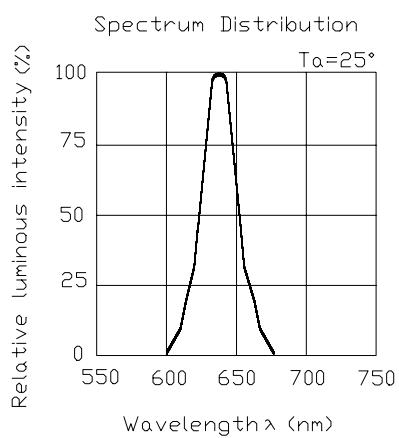
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MODEL NO: ELS-511SURWA/S530-A2

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Page:

4/5

■ Typical Electro-Optical Characteristic Curves:

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MODEL NO : ELS-511SURWEA/S530-A2

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Page:

5/5

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 = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1