



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDT-315-009 REV: 1

0.36" Triple Digit Displays

PART NO. : ELT-315SURWA/S530-A3 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 ELT-315 series is a large 9.2 mm (0.36")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	
	Material	Emitted Color
ELT-315SURWA/S530-A3	AlGaInP	Hyper Red

OFFICE : NO. 25,Lane 76,Sec.3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.

TEL : 886-2-2267-2000,2267-9936

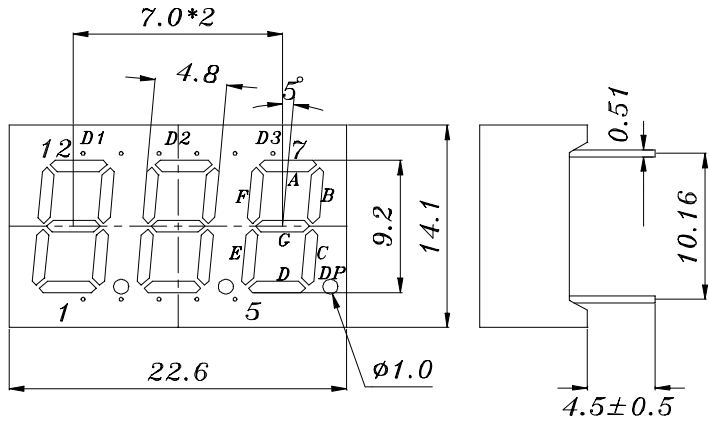
FAX : 886-2-2267-6244,22676189,22676306

<http://www.everlight.com>

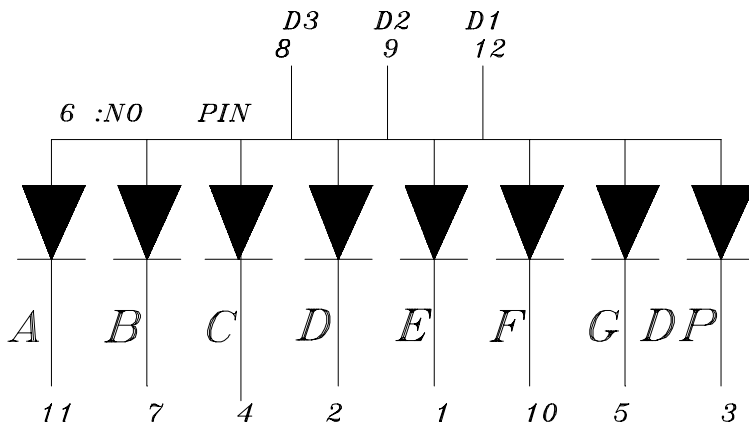
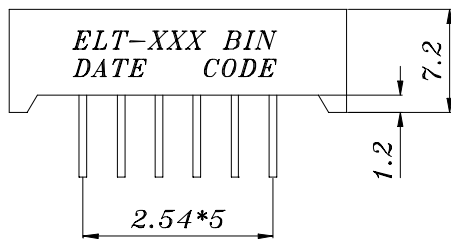
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PART NO. : ELT-315SURWA/S530-A3 ECN : _____ Page: 2/5**Package Dimensions:****COMMON ANODE**

- 1. CATHODE E
- 2. CATHODE D
- 3. CATHODE DP
- 4. CATHODE C
- 5. CATHODE G
- 6. NO PIN
- 7. CATHODE B
- 8. COMMON ANODE D3
- 9. COMMON ANODE D2
- 10. CATHODE F
- 11. CATHODE A
- 12. COMMON ANODE D1

**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 Intensity	Per segment	Iv	1.5	2.5	----	mcd	IF=2mA
			5.6	8.9	----		IF=10mA
	Per decimal point		0.5	0.7	----	mcd	IF=2mA
			2.0	3.5	----		IF=10mA
Peak Wavelength		λp	----	632	----	nm	IF=20mA
Dominant Wavelength		λd	----	624	----	nm	IF=20mA
Spectrum Radiation	Bandwidth	$\Delta \lambda$	----	20	----	nm	IF=20mA
Forward Voltage		VF	----	2.0	2.4	V	IF=20mA
Reverse Current		IR	----	----	10	μA	VR=5V



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■ Typical Electro-Optical Characteristic Curves:

(SUR)

Spectrum Distribution
 $T_a=25^\circ$

Wavelength λ_p (nm)	Relative luminous intensity (%)
600	0
620	10
630	100
640	80
650	20
660	0

Forward Current vs. Forward Voltage

FORWARD VOLTAGE (V)	Forward Current I_f (mA)
1.8	0
2.0	20
2.2	35
2.4	50

Forward Current Derating Curve

AMBIENT TEMPERATURE T_a (°C)	Forward Current I_f (mA)
0	25
20	25
40	20
60	15
80	10
85	0



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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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