

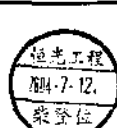
EVERLIGHT**EVERLIGHT ELECTRONICS CO.,LTD.**

DATA SHEET

PART NO. : ELT-512SURWA/S530-A3**DATE : 2004/6/30****DEPARTMENT : CHR&D1****REVISION : 2**

RECEIVED

☒ **MASS PRODUCTION**☐ **PRELIMINARY**☐ **CUSTOMER DESIGN****DEVICE NUMBER : CDDT-512-026****PAGE : 5**

CUSTOMER	DESIGNER	CHECKER	APPROVER
			

2	Revision update and add Pb free	2004/6/30
REV.	DESCRIPTION	RELEASE DATE

OFFICE: 7C BUILDING, LIAN HUA PORT INDUSTRIAL DISTRICT, LIAN HUA SHAN

BONDED PRICESSING ZONE PAN YU, GUANG ZHU, CHINA

TEL. : (020)84860913,84860914

FAX : (020)84860600

[http : //www.everlight.com](http://www.everlight.com)



Technical Data Sheet
0.56" Triple Digit Displays

ELT-512SURWA/S530-A3

■ **Features :**

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

■ **Descriptions :**

- The ELT-512 series is a large 14.22 mm (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.



■ **Applications :**

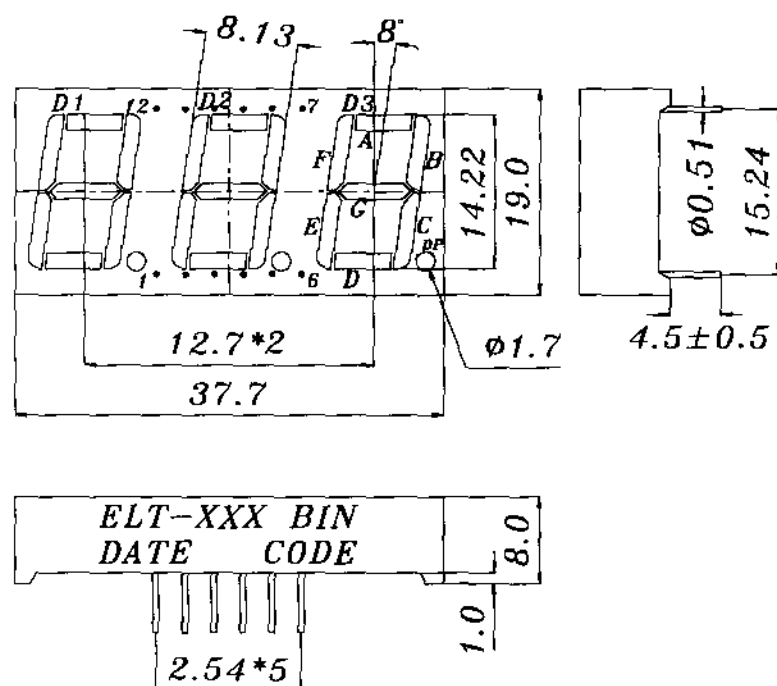
- Audio equipment
- Instrument panels
- Digital read out display

PART NO.	Chip	
	Material	Emitted Color
ELT-512SURWA/S530-A3	AlGaInP	Hyper Red

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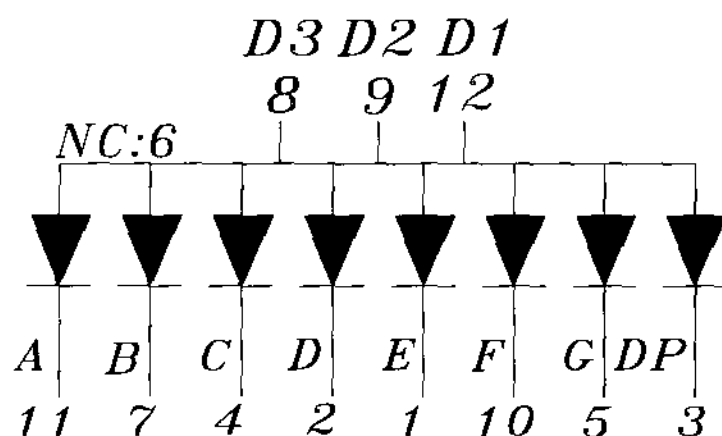
ELT-512SURWA/S530-A3

Package Dimensions



COMMON ANODE

- 1 CATHODE E
- 2 CATHODE D
- 3 CATHODE DP
- 4 CATHODE C
- 5 CATHODE G
- 6 NO CONNECT
- 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	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	----	3.5	----	mcd	I _F =2mA
			7.80	17.60	----		I _F =10mA
	Per decimal point		----	1.0	----	mcd	I _F =10mA
			2.5	5.6	----		
Peak Wavelength		λ _p	----	632	----	nm	I _F =20mA
Dominant Wavelength		λ _d	----	624	----	nm	I _F =20mA
Spectrum Radiation Bandwidth		Δλ	----	20	----	nm	I _F =20mA
Forward Voltage		V _F	----	2.0	2.4	V	I _F =20mA
Reverse Current		I _R	----	----	100	μA	V _R =5V

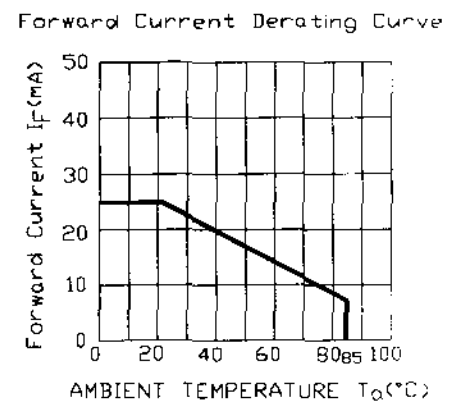
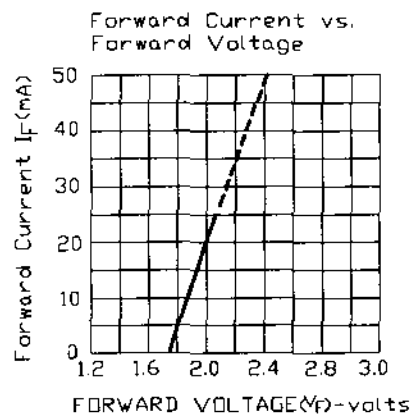
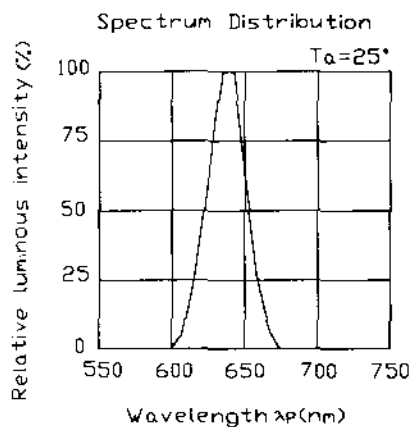


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0.56" Triple Digit Displays

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■ Typical Electro-Optical Characteristic Curves:

<SUR>



**Technical Data Sheet**
0.56" Triple Digit Displays**ELT-512SURWA/S530-A3****■ 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