



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDS-516-021 REV: 1

0.52" Single Digit Displays

PART NO. : ELS-516SYGWA/S530-E2 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-516 series is a large 13.2 mm (0.52")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
ELS-516SYGWA/S530-E2	AlGaInP	Super Yellow Green

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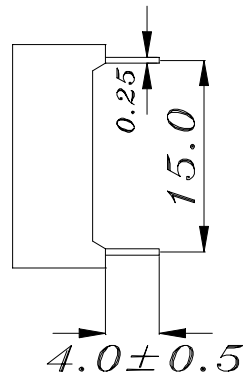
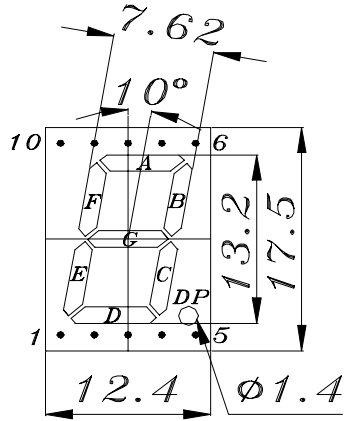
<http://www.everlight.com>

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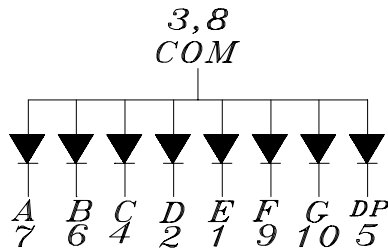
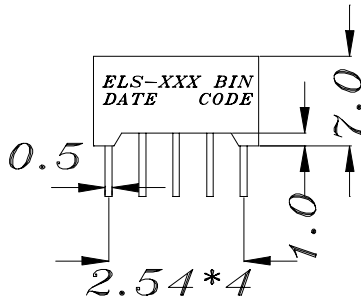


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■ Package Dimensions:



- COMMON ANODE*
- 1 *CATHODE E*
 - 2 *CATHODE D*
 - 3 *COMMON ANODE*
 - 4 *CATHODE C*
 - 5 *CATHODE DP*
 - 6 *CATHODE B*
 - 7 *CATHODE A*
 - 8 *COMMON ANODE*
 - 9 *CATHODE F*
 - 10 *CATHODE G*



■ 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	----	0.6	----	mcd	IF=2mA
			2.0	3.2	----		IF=10mA
	Per decimal point		----	0.20	----	mcd	IF=2mA
			0.6	1.0	----		IF=10mA
Peak Wavelength		λp	----	575	----	nm	IF=20mA
Dominant Wavelength		λd	----	573	----	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	----	----	100	μA	VR=5V



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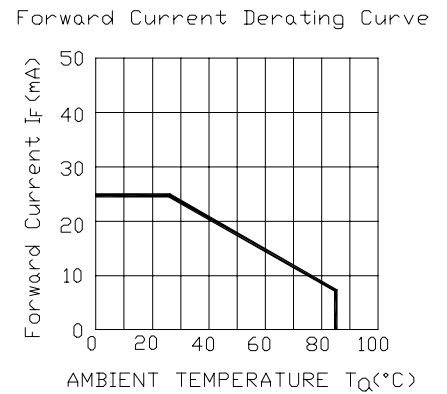
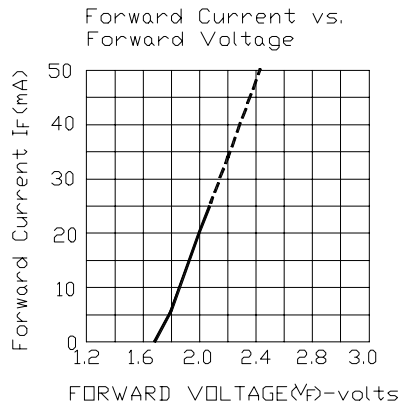
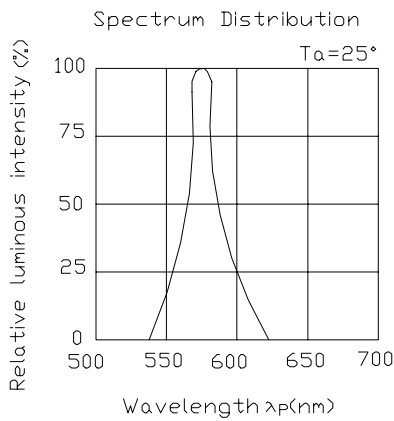
PART NO. : ELS-516SYGWA/S530-E2

ECN : _____

Page: 4/5

Typical Electro-Optical Characteristic Curves:

CHIP Material:AlGaInP
Emitted Color:Super Yellow Green





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PART NO. : ELS-516SYGWA/S530-E2 ECN : Page: 5/5

■ 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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