



0.28" Single Digit Displays

■ Features :

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

■ Applications:

- Audio equipment
- Instrument panels
- Digital read out display

■ Descriptions :

- The ELS-325 series is a large 7.0mm (0.28")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-325SYGWA/S530-E1	AlGaInP	Super Yellow Green

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<http://www.everlight.com>



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDS-325-008

REV: 1.1

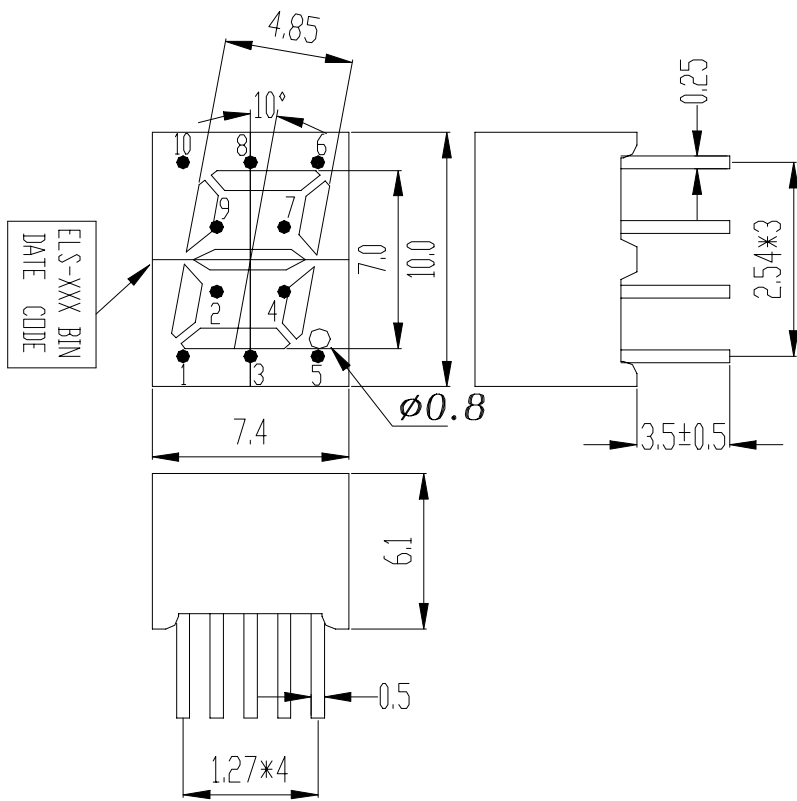
0.28" Single Digit Displays

MODEL NO : ELS-325SYGWA/S530-E1

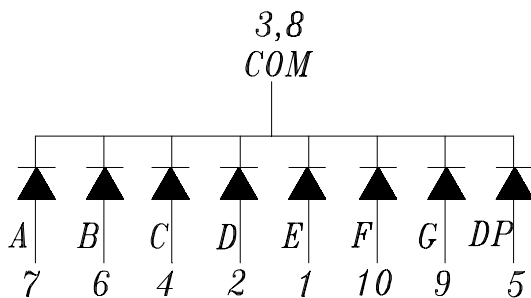
ECN : _____

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Package Dimensions:



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



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

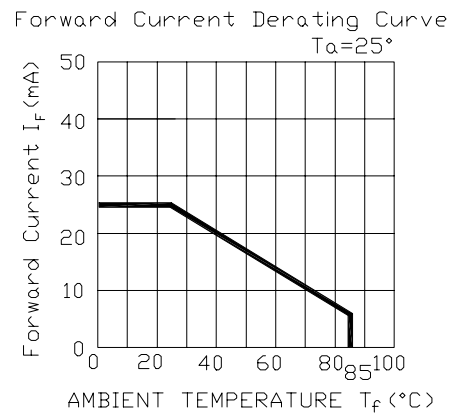
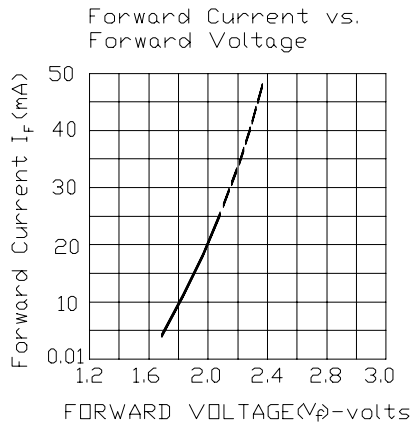
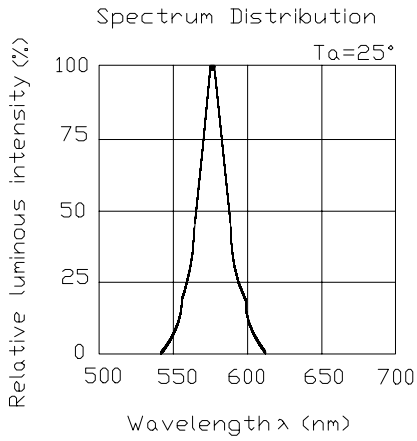
■ Electronic optical characteristics :

Parameter		Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous	Per segment	I _v	0.28	0.7	----	mcd	I _f =2mA
			1.40	4.4	----	mcd	I _f =10mA
Intensity	Per decimal point		0.07	0.30	----	mcd	I _f =2mA
			0.45	2.00	----	mcd	I _f =10mA
Peak Wavelength		λ _p	----	575	----	nm	I _f =20mA
Dominant Wavelength		λ _d	----	573	----	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	----	----	10	μA	V _r =5V



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■ Typical Electro-Optical Characteristic Curves:





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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