

## Excellent Integrated System Limited

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[Everlight Electronics Co Ltd](#)  
[ELST-405SYGWA/S530-E2](#)

For any questions, you can email us directly:

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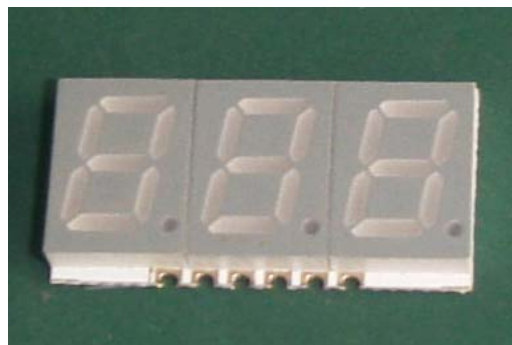
## Technical Data Sheet

### 0.39" Triple Digit SMD Displays

#### ELST-405SYGWA/S530-E2

#### Features

- Packaged in tape and reel for SMT manufacturing.
- Design flexibility(common cathode or anode).
- Categorized for luminous intensity.
- The thickness is thinner than tradition display.
- Pb free
- The product itself will remain within RoHS compliant version



#### Descriptions

- The SMD type is much smaller than tradition type components, thus enable smaller board size, higher packing density, reduced storage space and finally smaller equipment to be obtained.

#### Applications

- Suitable for indoor use.
- Audio system.
- Set top box.
- Game machine.
- Channel indicator of TV.

#### Device Selection Guide

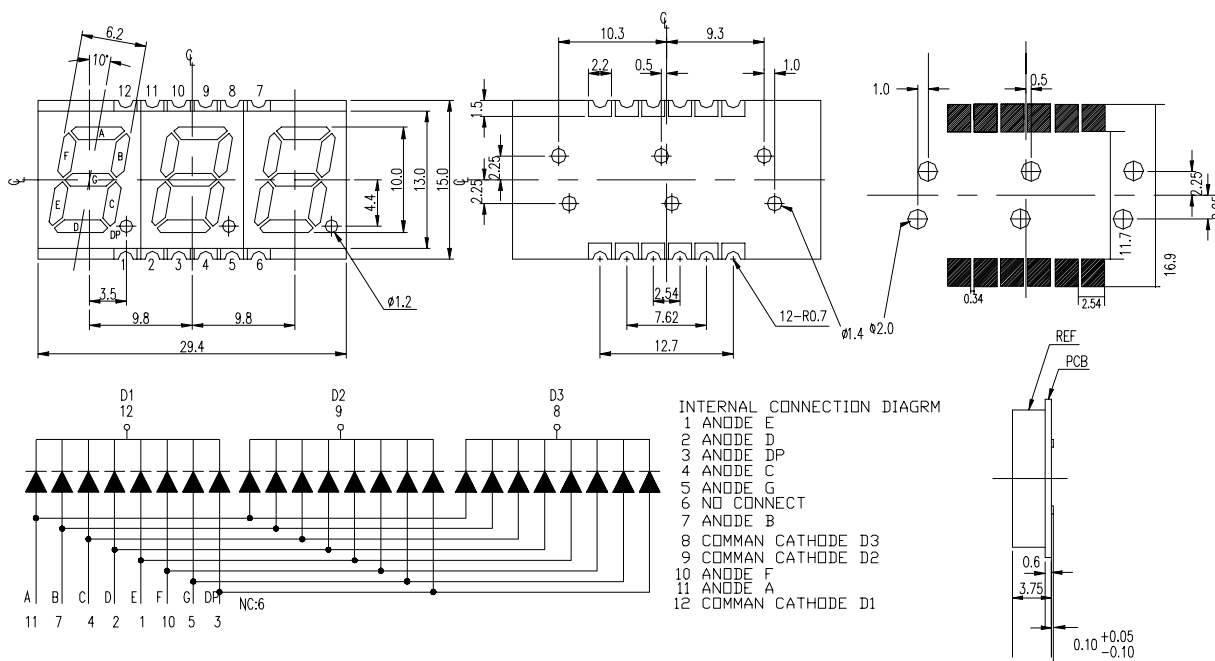
Chip		Face Color
Material	Emitted Color	
AlGaInP	Brilliant Yellow Green	Gray



## ELST-405SYGWA/S530-E2

### Package Dimensions

### Land Pattern(Recommend)



### Notes:

- All dimensions are in millimeters, tolerance is 0.25mm unless otherwise noted.
- Above specification may be changed without notice. Supplier will reserve authority on material change for above specification.

### Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units
Forward Current	I <sub>F</sub>	25	mA
Pulse Forward Current <sup>*1</sup>	I <sub>FP</sub>	60	mA
Operating Temperature	T <sub>opr</sub>	-40 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	°C
Reflow Temperature <sup>*2</sup>	T <sub>sol</sub>	260	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	P <sub>d</sub>	60	mW
Reverse Voltage	V <sub>R</sub>	5	V

**Notes:** \*1:I<sub>FP</sub> Conditions--Pulse Width ≤ 10msec and Duty ≤ 1/10.

\*2:Reflow time ≤ 5 seconds.



## ELST-405SYGWA/S530-E2

### Electro-Optical Characteristics (Ta=25°C)

Parameter		Symbol	Min.	Typ.	Max.	Units	Condition
Forward Voltage		V <sub>F</sub>	--	2.0	2.4	V	I <sub>F</sub> =20mA
Reverse Current		I <sub>R</sub>	--	--	10	μA	V <sub>R</sub> =5V
Luminous Intensity	Per segment	I <sub>V</sub>	4.0	9.0	--	mcd	I <sub>F</sub> =10mA
	Per decimal point		2.0	3.7	--		
Peak Wavelength		λ <sub>p</sub>	--	575	--	nm	I <sub>F</sub> =20mA
Dominant Wavelength		λ <sub>d</sub>	--	573	--	nm	I <sub>F</sub> =20mA
Spectrum Radiation Bandwidth		Δλ	--	20	--	nm	I <sub>F</sub> =20mA

### Chromaticity Coordinates Specifications for Bin Grading (Unit: mcd)

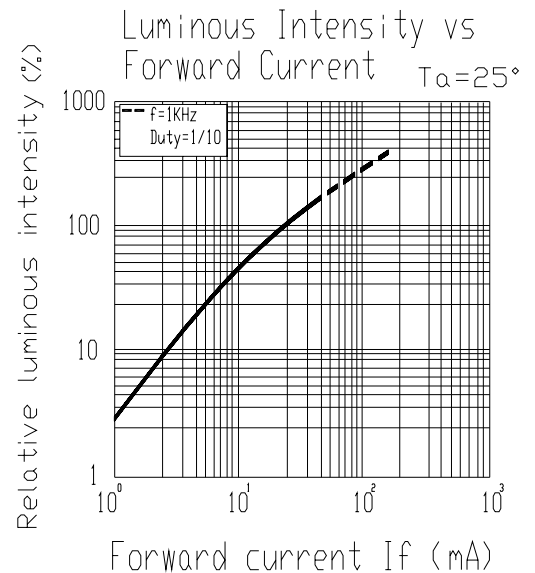
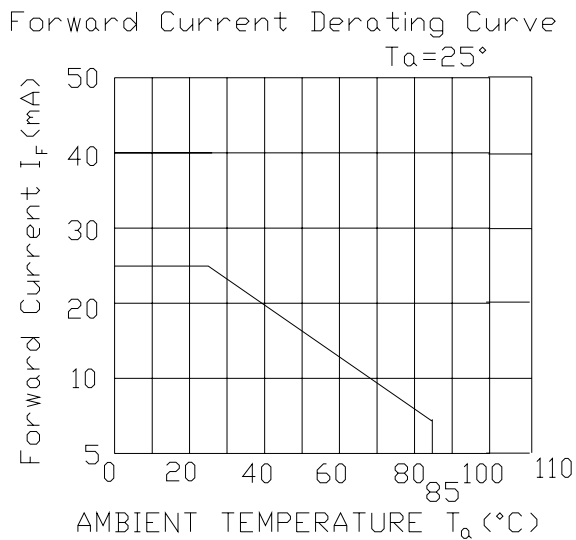
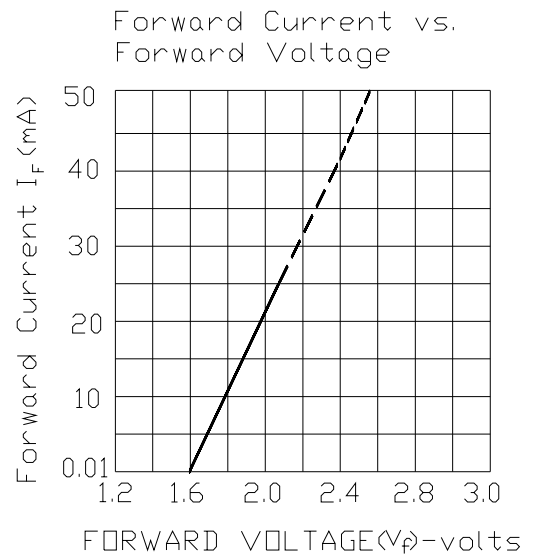
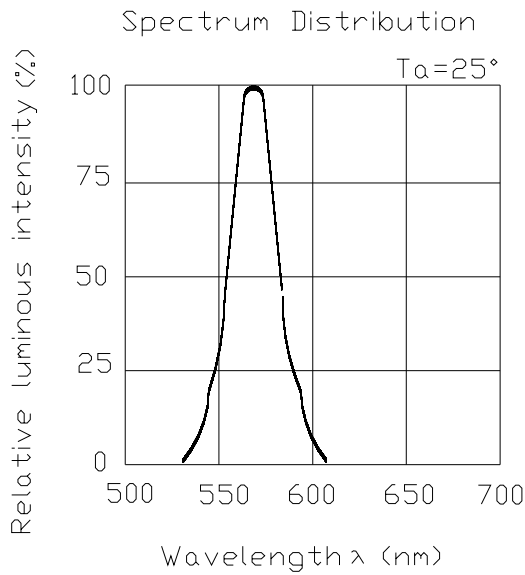
Rank	Min.	Max.	Rank	Min.	Max.
N	4.0	6.4	T	21.0	34.0
P	5.6	8.9	U	30.0	48.0
Q	7.8	12.5	V	42.0	67.0
R	11.0	17.6	W	59.0	94.0
S	15.0	24.0	---	---	---



**ELST-405SYGWA/S530-E2**

**Typical Electro-Optical Characteristics Curves**

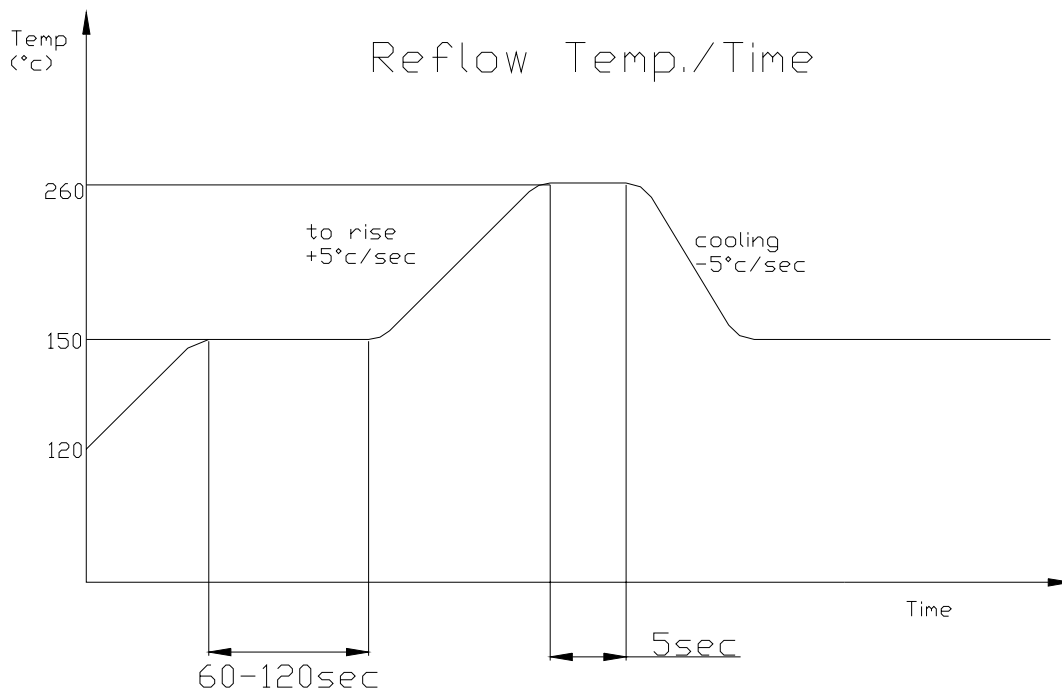
( SYG )





**ELST-405SYGWA/S530-E2**

■ **Reflow Temp. / Time :**



■ **Soldering Iron :**

Basic spec is  $\leq 5$  sec when  $260^{\circ}\text{C}$ . If temperature is higher, time should be shorter ( $+10^{\circ}\text{C} \rightarrow -1\text{sec}$ ). Power dissipation of iron should be smaller than 15 W , and temperature should be controllable. Surface temperature of the device should be under  $230^{\circ}\text{C}$ .

■ **Rework :**

1. Customer must finish rework within 5 sec under  $260^{\circ}\text{C}$ .
2. The head of iron can not touch copper foil.