



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





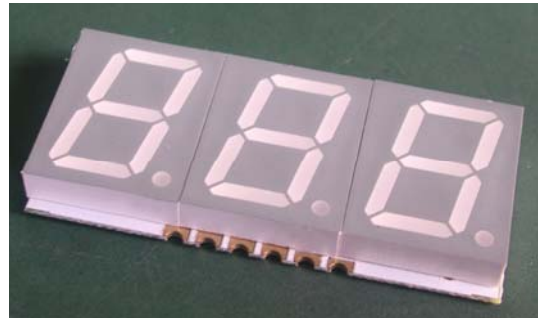
Technical Data Sheet

0.51" Triple Digit SMD Displays

ELST-506SYGWA/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.

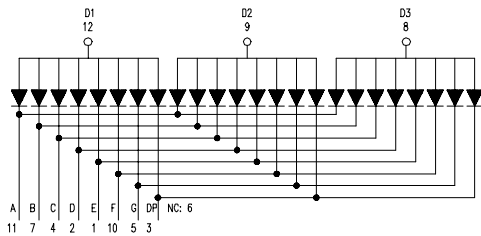
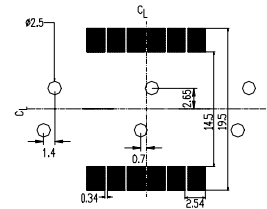
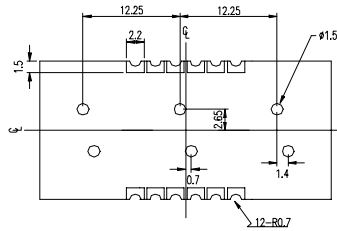
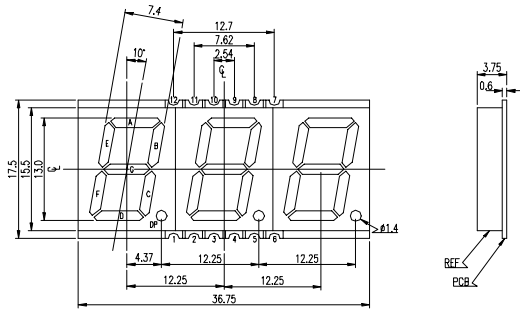
Device Selection Guide

Chip		Face Color
Material	Emitted Color	
AlGaInP	Brilliant Yellow Green	Gray

ELST-506SYGWA/S530-E2

Land Pattern(Recommend)

Package Dimensions



INTERNAL CONNECTION DIAGRM

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

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_F	25	mA
Pulse Forward Current ^{*1}	I_{FP}	60	mA
Operating Temperature	T_{opr}	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	°C
Reflow Temperature ^{*2}	T_{sol}	260	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	P_d	60	mW
Reverse Voltage	V_R	5	V

Notes: *1: I_{FP} Conditions--Pulse Width \leq 10msec and Duty \leq 1/10.

*2:Reflow time \leq 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

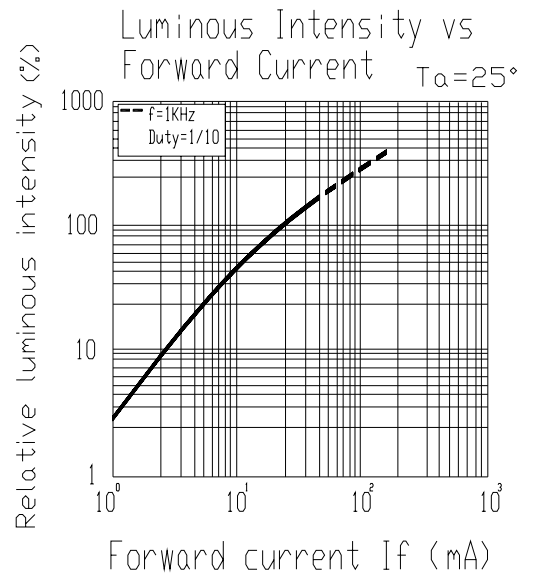
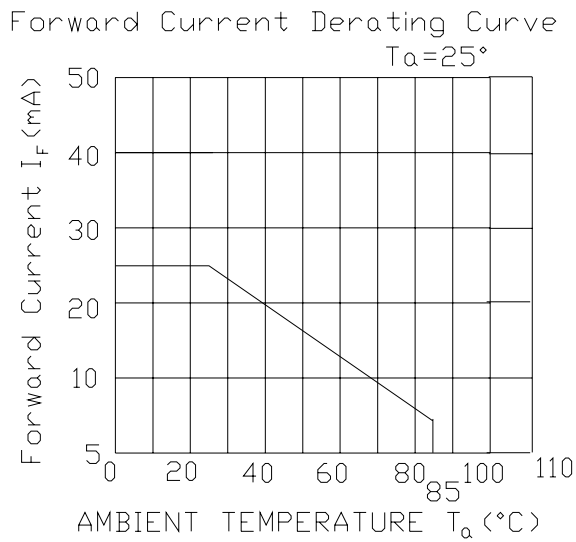
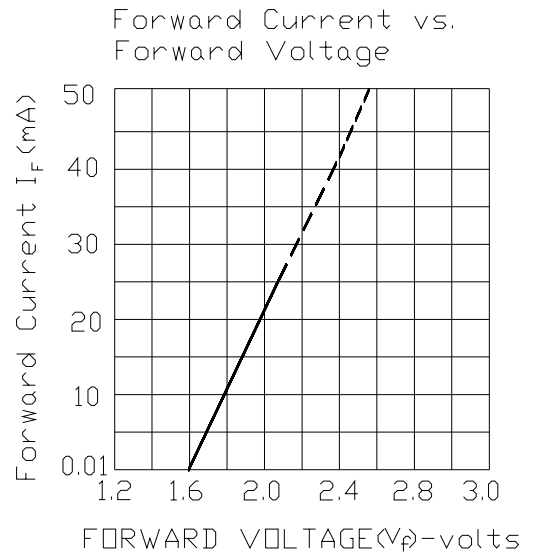
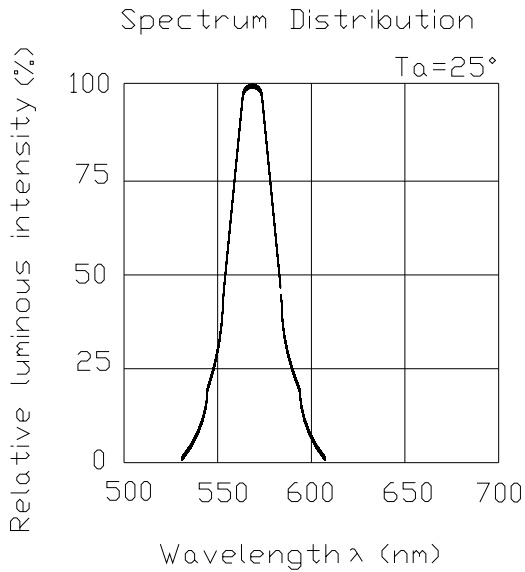
Parameter		Symbol	Min.	Typ.	Max.	Units	Condition
Forward Voltage		V_F	--	2.0	2.4	V	$I_F=20mA$
Reverse Current		I_R	--	--	10	μA	$V_R=5V$
Luminous Intensity	Per segment	I_V	4.0	9.6	--	mcd	$I_F=10mA$
	Per decimal point		2.0	3.7	--		
Peak Wavelength		λ_p	--	575	--	nm	$I_F=20mA$
Dominant Wavelength		λ_d	--	573	--	nm	$I_F=20mA$
Spectrum Radiation Bandwidth		$\Delta \lambda$	--	20	--	nm	$I_F=20mA$

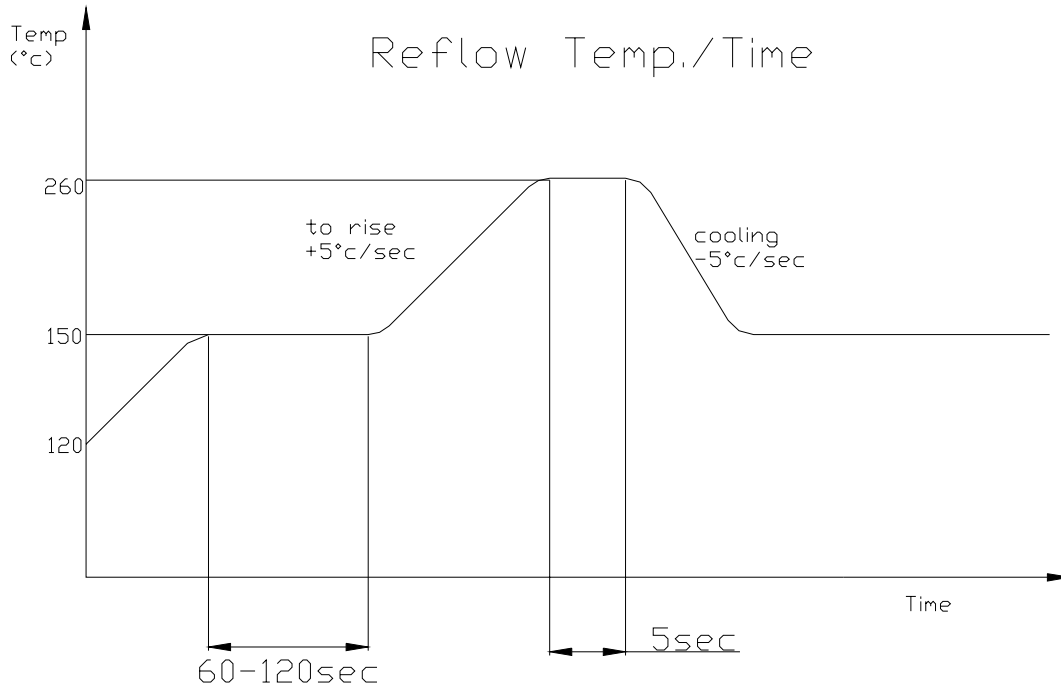
Chromaticity Coordinates Specifications for Bin Grading (Unit: mcd)

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	---	---	---

Typical Electro-Optical Characteristics Curves

(SYG)



■ Reflow Temp. / Time :**■ Soldering Iron :**

Basic spec is ≤ 5 sec when 260°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°C .

■ Rework :

1. Customer must finish rework within 5 sec under 260°C .
2. The head of iron can not touch copper foil.