

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!



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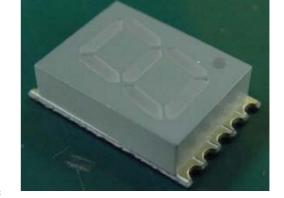


Technical Data Sheet 0.39" Single Digit SMD Displays

ELSS-406SURWA/S530-A2/S290

Features

- Packaged in tape and reel for SMT manufacturing.
- Design flexibility(common cathode or anode).
- Categorized for luminous intensity.
- The thickness is thinness than tradition display.



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	Hyper Red	Gray	

Everlight Electronics Co., Ltd.

Device No.:

http://www.everlight.com

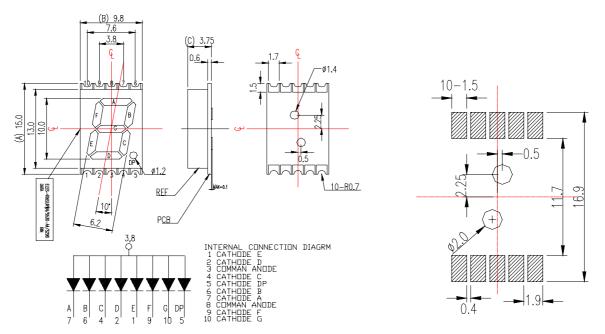
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Package Dimensions

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_{F}	25	mA
Pulse Forward Current*1	I_{FP}	160	mA
Operating Temperature	Topr	-40 ~ +105	$^{\circ}$
Storage Temperature	T _{stg}	-40 ~ +105	$^{\circ}$
Soldering Temperature*2	T _{sol}	260	$^{\circ}\! \mathbb{C}$
Power Dissipation	P _d	60	mW
Reverse Voltage	VR	5	V

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

*2:Soldering time ≤ 5 seconds.

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Electro-Optical Characteristics (Ta=25°C)

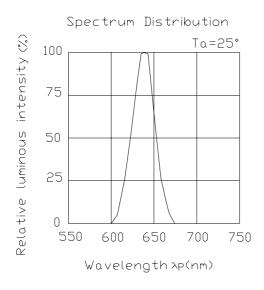
Parameter		Symbol	Condition	Min.	Тур.	Max.	Units
Forward Voltage		V_{F}	I _F =20mA		2.0	2.4	V
Reverse Current		I_R	V _R =5V			10	μΑ
Per segment			I _F =2mA		1.14		
Intensity Per decimal point			I _F =10mA	2.8	7.22		mcd
	$I_{ m V}$	I _F =2mA		0.34			
			I _F =10mA		2.17		
Peak Wavelenght		λp	I _F =20mA		632		nm
Dominant Wavelenght		λd	I _F =20mA		624		nm
Spectrum Radiation Bandwidth		Δλ	I _F =20mA		20		nm

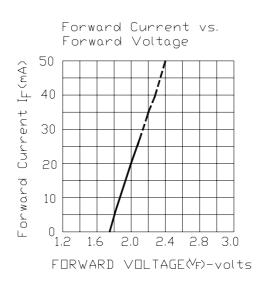
Chromaticity Coordinates Specifications for Bin Grading (Unit: mcd)

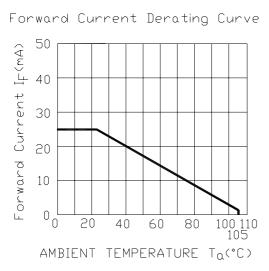
	y coordinates specifications for 2m ordania (criet mea)						
Rank	Min.	Max.	Rank	Min.	Max.		
M	2.8	4.5	Q	7.8	12.5		
N	4.0	6.4	R	11.0	17.6		
P	5.6	8.9					

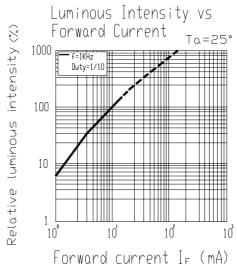


Typical Electro-Optical Characteristics Curves







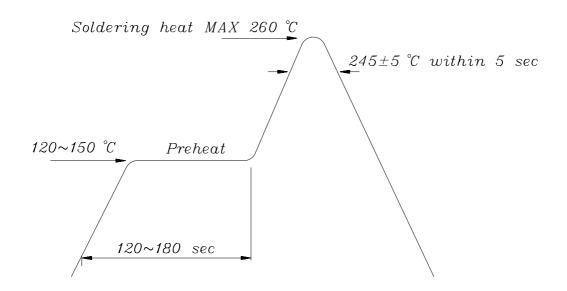


Device No.:



Soldering heat reliability (DIP):

Please refer to the following figure:



Soldering Iron :

Basic spec is ≤ 5 sec when 260°C . If temperature is higher, time should be shorter (+10°C \rightarrow -1sec). 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.

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■ Reflow Temp. / Time :

