



0.4" Single Digit Displays

PART NO. : ELS-401SRWB 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-401 series is a large 10.16 mm
(0.4")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 black surface.

PART NO.	Chip	
	Material	Emitted Color
ELS-401SRWB	GaAlAs	Super Red

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TEL : 886-2-2267-2000,2267-9936

FAX : 886-2-2267-6244,22676189,22676306

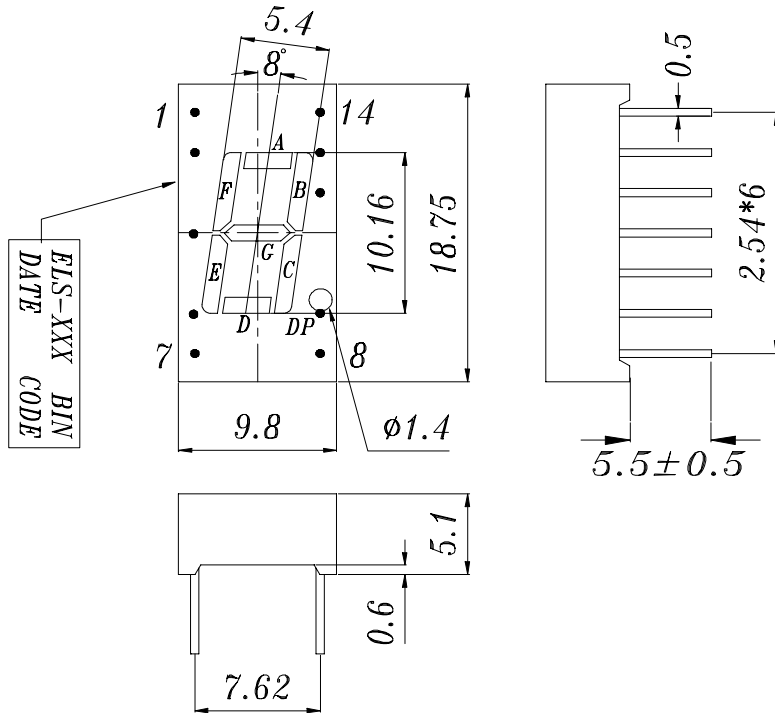
<http://www.everlight.com>



0.4" Single Digit Displays

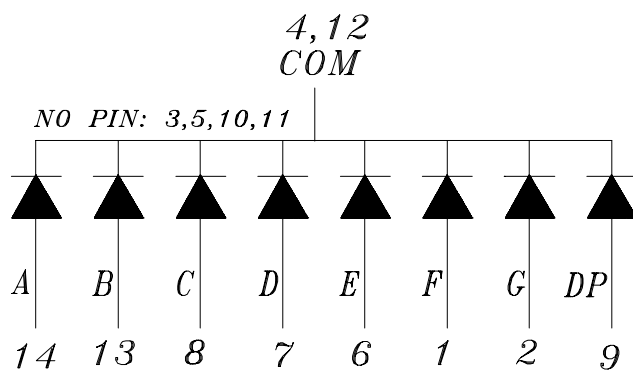
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■ Package Dimensions:



COMMON CATHODE

- 1 ANODE F
- 2 ANODE G
- 3 NO PIN
- 4 COMMON CATHODE
- 5 NO PIN
- 6 ANODE E
- 7 ANODE D
- 8 ANODE C
- 9 ANODE DP
- 10 NO PIN
- 11 NO PIN
- 12 COMMON CATHODE
- 13 ANODE B
- 14 ANODE A



■ 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.



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDS-401-003 REV: 2

0.4" Single Digit Displays

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■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	40	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	110	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	180	mA

■ Electronic optical characteristics :

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	Iv	2.8	4.0	----	mcd	IF=10mA
	Per decimal point		1.00	1.5	----		
Peak Wavelength		λ p	----	660	----	nm	IF=20mA
Dominant Wavelength		λ d	----	643	----	nm	IF=20mA
Spectrum Radiation	Bandwidth	△ λ	----	20	----	nm	IF=20mA
Forward Voltage		VF	1.5	1.7	2.4	V	IF=20mA
Reverse Current		IR	----	----	10	μ A	VR=5V



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDD5-401-003

REV: 2

0.4" Single Digit Displays

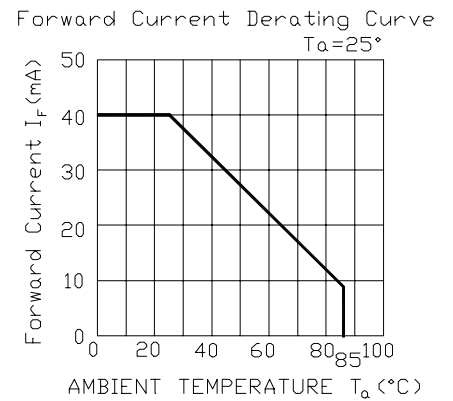
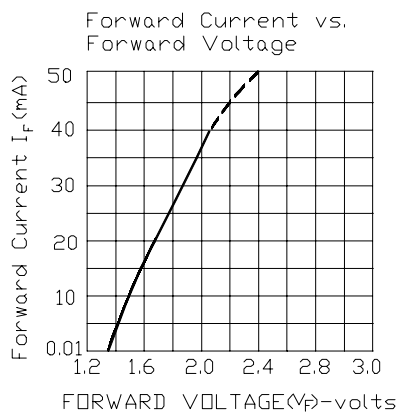
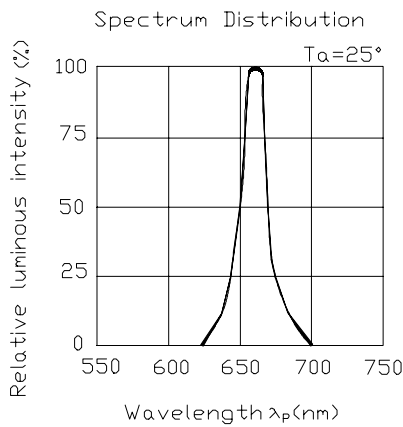
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ECN :

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Typical Electro-Optical Characteristic Curves:

SR





EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDS-401-003 REV: 2

0.4" Single Digit Displays

PART NO. : ELS-401SRWB 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