



0.56" Single Digit Displays

PART NO. : ELS-511EWA 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-511 series is a large 14.22mm (0.56") 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-511EWA	GaAsP/GaP	Orange

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<http://www.everlight.com>

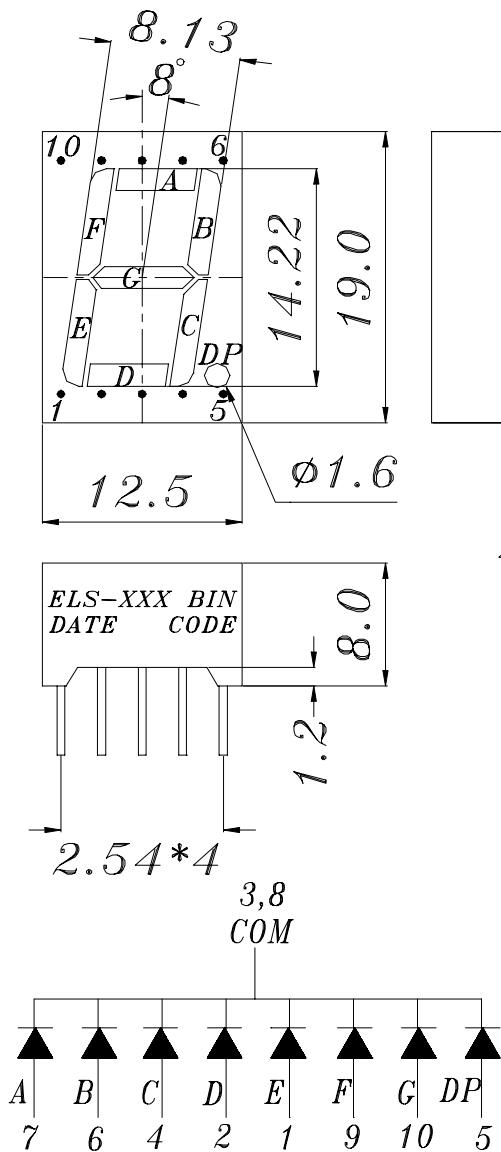
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■ Package Dimensions:



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

■ 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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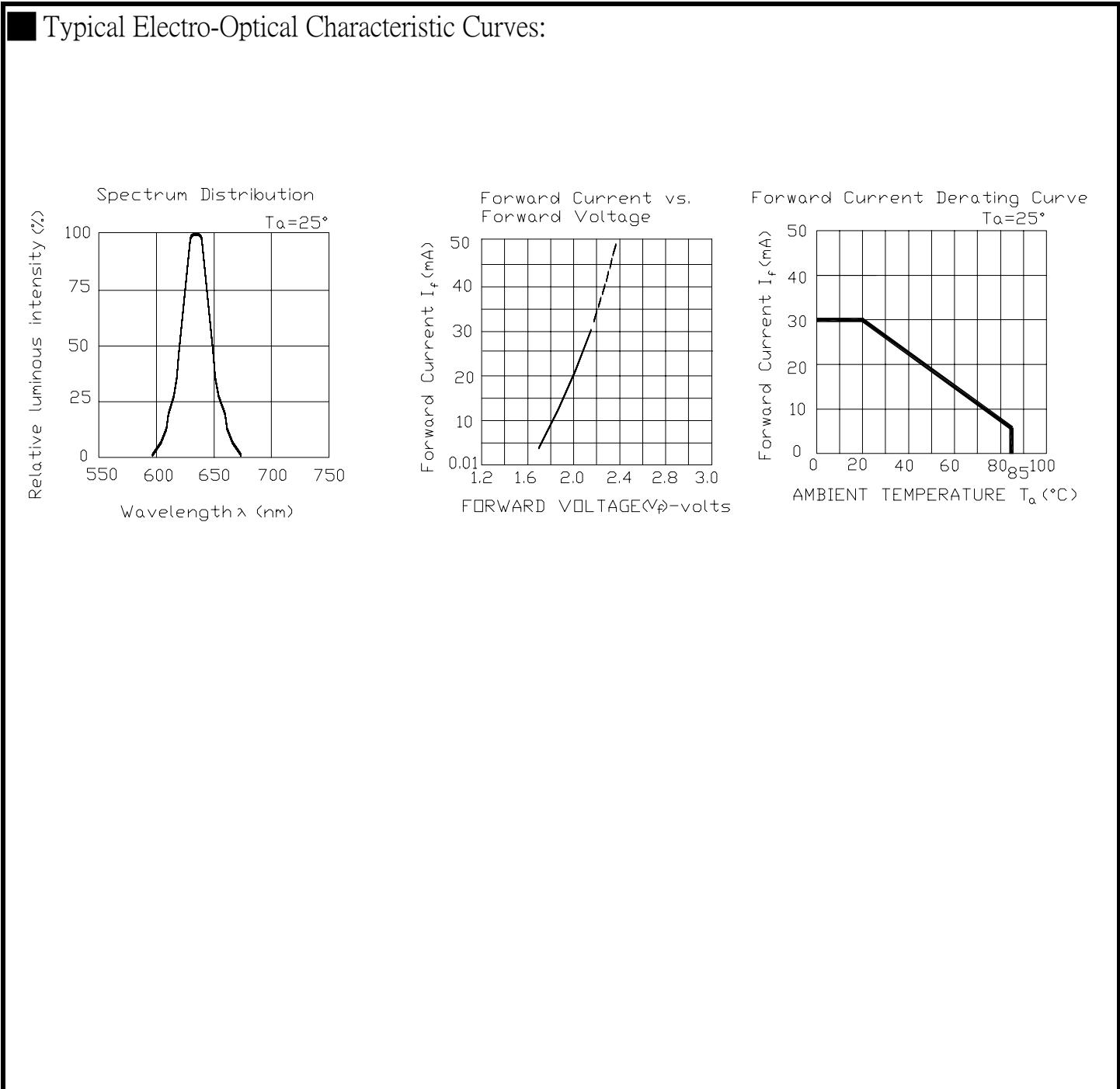
■ Absolute maximum ratings at $T_a = 25^\circ C$:

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	160	mA

■ Electronic optical characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	Iv	0.75	2.00	----	mcd
	Per decimal point		0.25	0.50	----	
Peak Wavelength	λ_p	----	635	----	nm	IF=20mA
Dominant Wavelength	λ_d	----	625	----	nm	IF=20mA
Spectrum Radiation Bandwidth	$\Delta \lambda$	----	45	----	nm	IF=20mA
Forward Voltage	VF	1.7	2.0	2.4	V	IF=20mA
Reverse Current	IR	----	----	10	μA	VR=5V

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EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDS-511-002 REV: 2

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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