



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDS-122-006 REV: 1.0

1.2" Single Digit Display

MODEL NO : ELS-1225GWB ECN : Page: 1/5

■ Features :

- Industrial standard size.
- Low power consumption.
- Categorized for luminous intensity.

■ Applications:

- Audio equipment
- Instrument panels
- Digital readout display

■ Description :

- The ELS-1225series is a large 30.4mm
(1.2")high seven segment display
design for viewing distances up to
7 meters.
- These displays provide excellent
reliability in bright ambient light .
- These device is made with white segments
and black surface.

PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
ELS-1225GWB	GaP	Green	C.C.

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<http://www.everlight.com>

TS99021 B991515

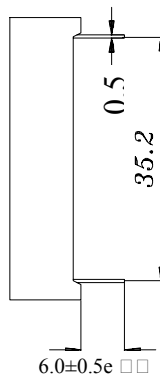
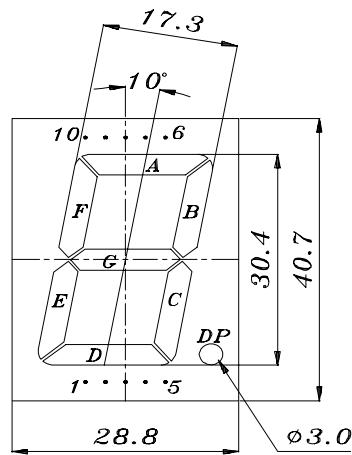


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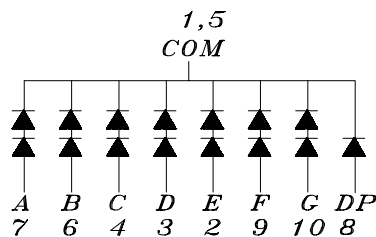
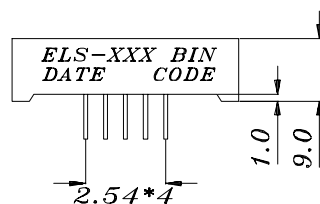
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Package Dimension:



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



NOTES:

- 1.All dimensions are 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 Ta = 25℃ :

Parameter	Symbol	Rating	Unit
Reverse Voltage	Vr	5	V
Forward Current	If	30	mA
Operating Temperature	Topr	-40 to +85	℃
Storage Temperature	Tstg	-40 to +100	℃
Soldering Temperature	Tsol	260 ± 5	℃
Power Dissipation	Pd	200	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	7.8	11.0	----	mcd	If=10mA
	Per decimal point		2.0	2.8	----		
Peak Wavelength		λ p	----	565	----	nm	If=20mA
Dominant Wavelength		λ d	----	570	----	nm	If=20mA
Spectrum Radiation Bandwidth		△ λ	----	30	----	nm	If=20mA
Forward Voltage	Per segment	Vf	3.4	4.2	4.8	V	If=20mA
	Per decimal point		1.7	2.1	2.4		
Reverse Current		Ir	----	----	10	μ A	Vr=5V



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■ Reliability test item and condition:

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 = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1



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Typical Electro-Optical Characteristic Curves:

