



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDS-232-014 REV: 1.0

2.3" Single Digit Multi-Color Display

MODEL NO : ELS-2326EGWA 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-2326series is a large 56.8mm (2.3")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 gray surface.

PART NO		CHIP		C.C. or C.A.
		Material	Emitted Color	
ELS-2326EGWA	E	GaAsP/GaP	Orange	C.A.
	G	GaP	Green	

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■ Absolute maximum ratings at Ta = 25°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	400	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(E)	5.6	8.7	----	mcd	If=10mA
		Iv(G)	7.8	12.6	----		
	Per decimal point	Iv(E)	1.4	2.0	----	mcd	If=10mA
		Iv(G)	2.0	2.8	----		
Peak Wavelength		λ p(E)	----	635	----	nm	If=20mA
		λ p(G)	----	565	----	nm	If=20mA
Dominant Wavelength		λ d(E)	----	625	----	nm	If=20mA
		λ d(G)	----	570	----	nm	If=20mA
Spectrum Radiation Bandwidth		Δ λ (E)	----	45	----	nm	If=20mA
		Δ λ (G)	----	30	----	nm	If=20mA
Forward Voltage		Vf(E)	1.7	2.0	2.6	V	If=20mA
		Vf(G)	1.7	2.1	2.4	V	If=20mA
Reverse Current		Ir	----	----	10	μA	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:

E

