EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDS-325-007 REV: 1.0

0.28" Single Digit Displays

MODEL NO : ELS-325GWA 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-325 series is a large 7.0mm (0.28")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-325GWA	GaP	Green	C.C.

OFFICE : NO. 25,Lane 76,Sec.3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.
TEL : 886-2-2267-2000,2267-9936
FAX : 886-2-2267-6244,22676189,22676306
http://www.everlight.com

0.28" Single Digit Displays

MODEL NO : ELS-325GWA ECN : Page: 2/5

■ Package Dimension:

■ 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.

0.28" Single Digit Displays

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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	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	1.40	2.4	----	mcd	If=10mA
	Per decimal point		0.45	0.75	----	mcd	If=10mA
Peak Wavelength		λp	----	565	----	nm	If=20mA
Dominant Wavelength		λd	----	570	----	nm	If=20mA
Spectrum Rediation Bandwidth		△λ	----	30	----	nm	If=20mA
Forward Voltage		Vf	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℃ ± 5 ℃	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85℃ 30min ∫ 5 min L : -55℃ 30min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100℃ 5min ∫ 10 sec L : -10℃ 5min	50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55℃	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℃/85% RH	1000 HRS	76 PCS	0/1

Typical Electro-Optical Characteristic Curves: