



Device Number : DDF-406-051 REV: 1.0

0.4" Quadruple Digit Displays

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■ Features :

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

■ Applications:

- Audio equipment
- Instrument panels
- Digital read out display

■ Descriptions :

- The ELF-406 series is a large 10.0mm (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 gray surface.

PART NO	Chip		C.C. or C.A.
	Material	Emitted Color	
ELF-406GWA	GaP	Green	C.A.

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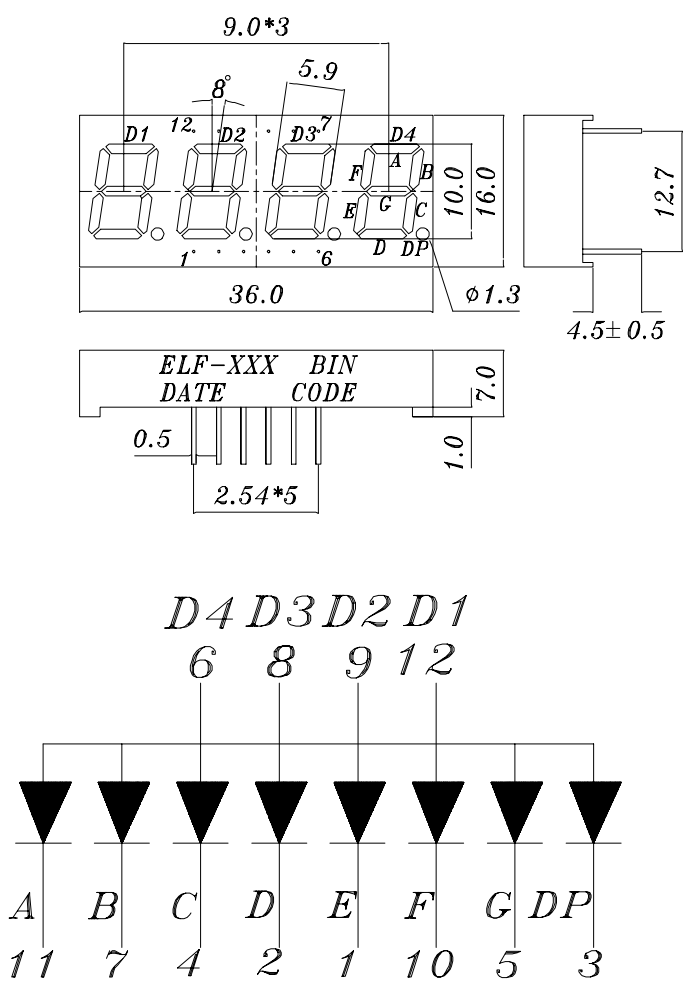
<http://www.everlight.com>



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Package Dimensions:



- COMMON ANODE
- 1. CATHODE E
 - 2. CATHODE D
 - 3. CATHODE DP
 - 4. CATHODE C
 - 5. CATHODE G
 - 6. COMMON ANODE D4
 - 7. CATHODE B
 - 8. COMMON ANODE D3
 - 9. COMMON ANODE D2
 - 10. CATHODE F
 - 11. CATHODE A
 - 12. COMMON ANODE D1

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 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	1.4	2.3	----	mcd	If=10mA
	Per decimal point		0.60	1.00	----		
Peak Wavelength		λ p	----	565	----	nm	If=20mA
Dominant Wavelength		λ d	----	575	----	nm	If=20mA
Spectrum Radiation Bandwidth		△ λ	----	30	----	nm	If=20mA
Forward Voltage		Vf	1.7	2.1	2.4	V	If=20mA
Reverse Current		Ir	----	----	10	μ A	Vr=5V



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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℃ ± 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

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■ Typical Electro-Optical Characteristic Curves:

