



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDF-106-003 REV: 1.0

1.0" Quadruple Digit Display

MODEL NO : ELF-1006SRDB/S180 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 ELF-1006 series is a large 25.4mm
(1.0")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 red
segments and black surface.

PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
ELF-1006SRDB/S180	GaAlAs	Super Red	C.A.

OFFICE : NO. 25,Lane 76,Sec.3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.

TEL : 886-2-2267-2000,2267-9936

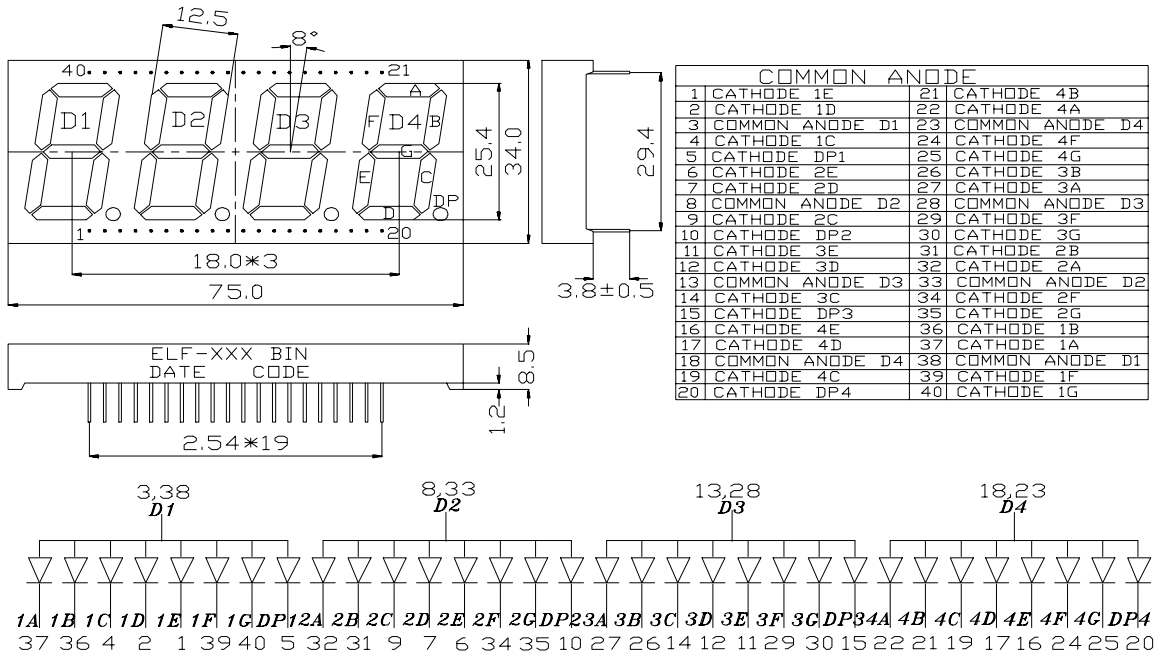
FAX : 886-2-2267-6244,22676189,22676306

<http://www.everlight.com>



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■ 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.



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■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _r	5	V
Forward Current	I _f	40	mA
Operating Temperature	T _{opr}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +100	°C
Soldering Temperature	T _{sol}	260 ± 5	°C
Power Dissipation	P _d	110	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	I _f (Peak)	180	mA

■ Electronic optical characteristics :

Parameter		Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous Intensity	Per segment	I _v	7.80	11.0	----	mcd	I _f =10mA
	Per decimal point		2.80	4.0	----		
Peak Wavelength		λ _p	----	660	----	nm	I _f =20mA
Dominant Wavelength		λ _d	----	643	----	nm	I _f =20mA
Spectrum Radiation Bandwidth		△λ	----	20	----	nm	I _f =20mA
Forward Voltage		V _f	1.5	1.7	2.4	V	I _f =20mA
Reverse Current		I _r	----	----	10	μA	V _r =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:

