



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDF-4M6-002 REV: 3

0.4" Quadruple Digit Displays

PART NO. : ELF-4M6SDRVGWB/S337 ECN : Page: 1/6

■ Features :

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

■ Applications:

- Audio equipment
- Instrument panels
- Digital read out display

■ Descriptions :

- The ELF-4M6 series is a large 10.0 mm (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 black surface.

PART NO.	Chip	
	Material	Emitted Color
ELF-4M6SDRVGWB/S337	AlGaInP (SDR)	Super Deep-Red
	GaP (VG)	Green

OFFICE : 7c Building ,Lian Hua Port Industrial District, Lian Hua Shan Bonded Processing Zone Pan Yu, Guang Zhou, China

TEL : (020) 84860913 , 84860914

FAX : (020) 84860600

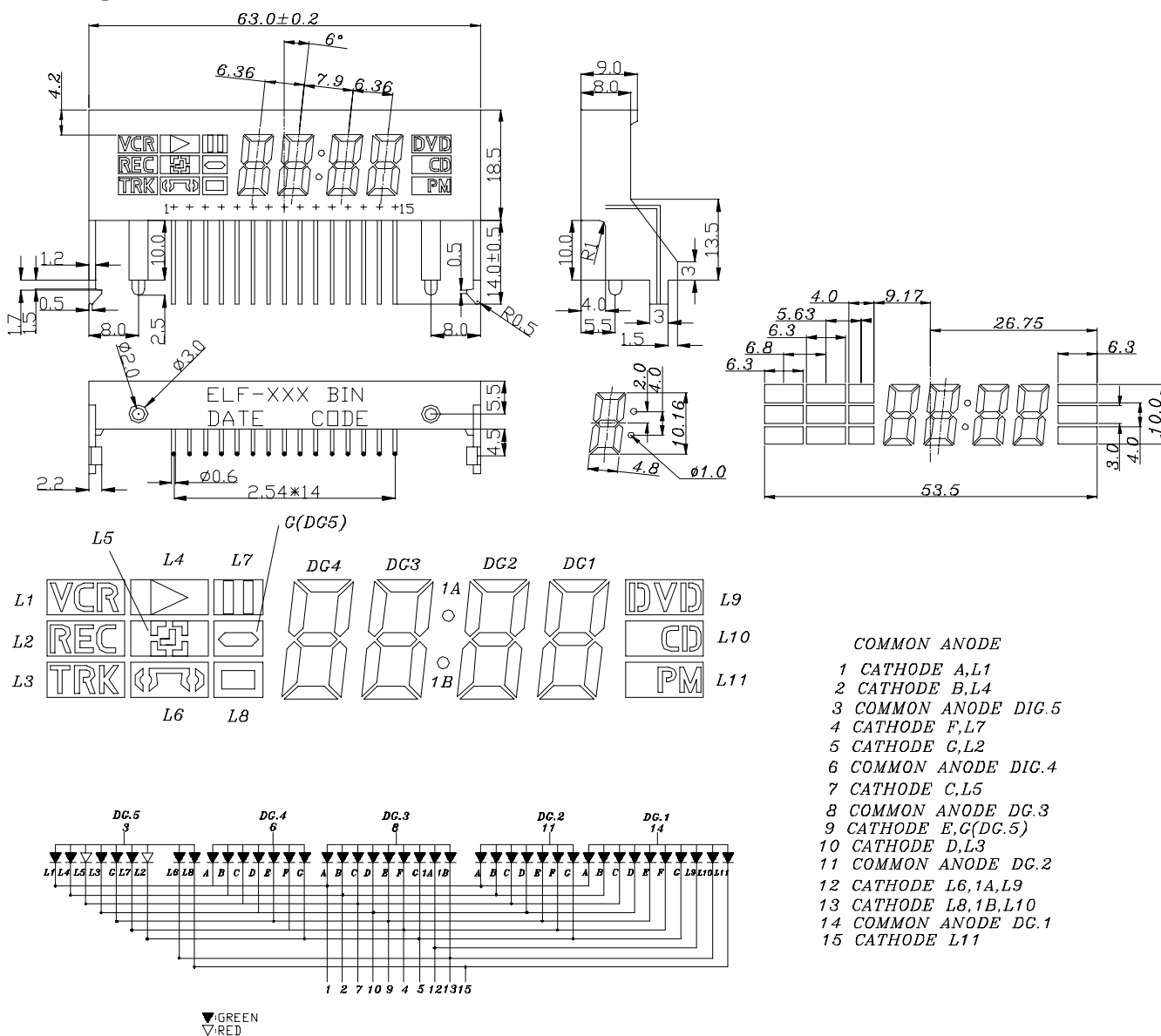
<http://www.everlight.com>

T01771 C90560543

0.4" Quadruple Digit Displays

PART NO. : ELF-4M6SDRVGWB/S337 ECN : Page: 2/6

■ Package Dimensions:



■ 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.



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDF-4M6-002 REV: 3

0.4" Quadruple Digit Displays

PART NO. : ELF-4M6SDRVGWB/S337 ECN : Page: 3/6

■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF (SDR)	25	mA
	IF (VG)	30	
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Soldering Time	----	5~10	SEC
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd (SDR)	60	mW
	Pd (VG)	100	
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	1.05	1.5	4.5	mcd	IF=10mA
	Per decimal point		0.3	0.6	1.5		
Peak Wavelength		λ p(SDR)	----	650	----	nm	IF=20mA
		(VG)	----	570	----		
Dominant Wavelength		λ d(SDR)	----	639	----	nm	IF=20mA
		(VG)	----	571	----		
Spectrum Radiation Bandwidth		△ λ (SDR)	----	20	----	nm	IF=20mA
		(VG)	----	30	----		
Forward Voltage		VF (SDR)	----	2.0	2.4	V	IF=20mA
		(VG)	1.7	2.1	2.4		
Reverse Current		IR	----	----	10	μ A	VR=5V
The Brightness Ratio Between Segments		Iv	----	----	1 : 1.7		IF=13mA

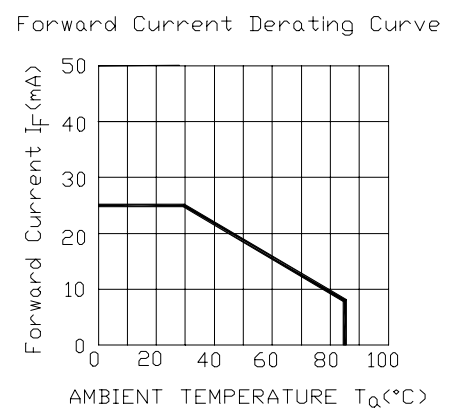
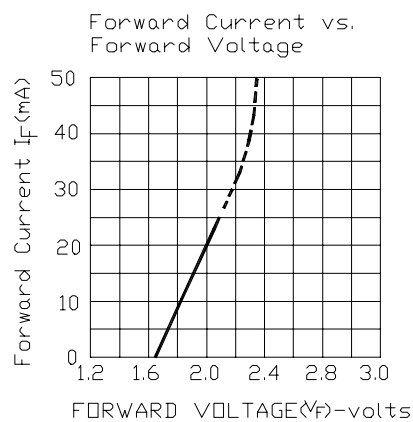
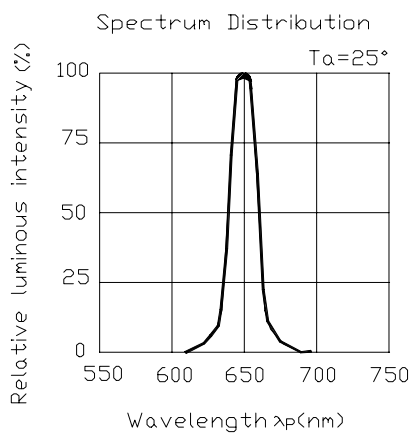


0.4" Quadruple Digit Displays

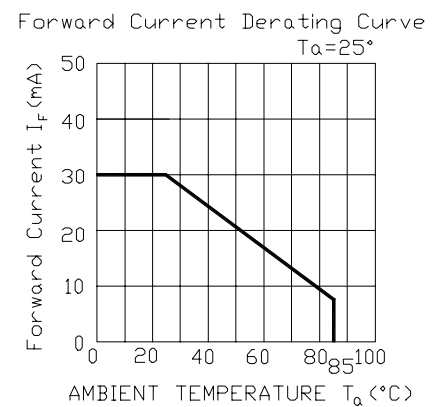
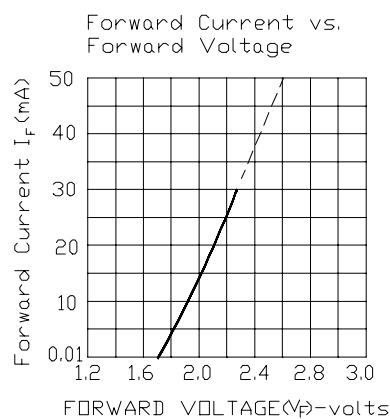
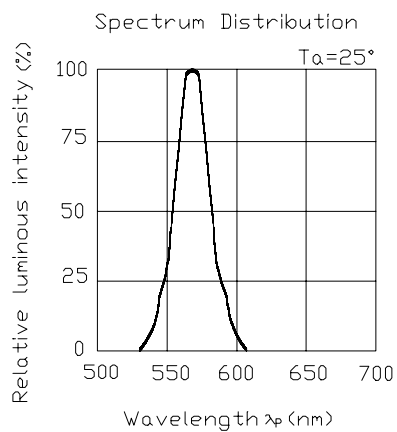
PART NO. : ELF-4M6SDRVGWB/S337ECN : Page: 4/6

Typical Electro-Optical Characteristic Curves:

(SDR)



VG





EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDF-4M6-002

REV: 3

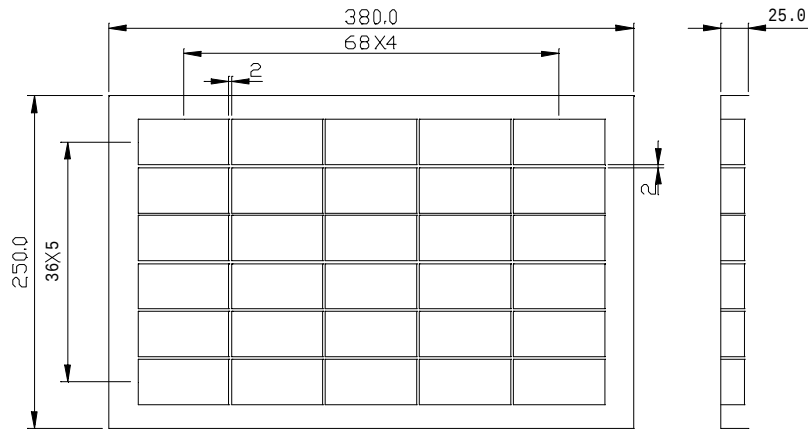
0.4" Quadruple Digit Displays

PART NO. : ELF-4M6SDRVGWB/S337

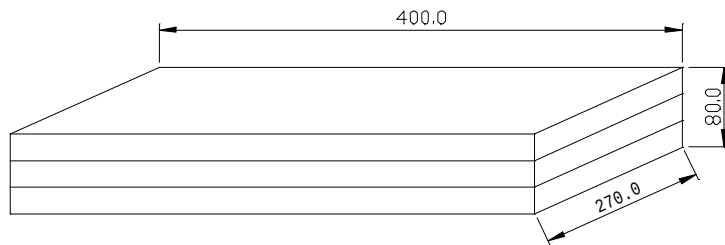
ECN :

Page: 5/6

■ The Packine Specification :



30PCS/TRAY



3 TARY/BOX



4 BOX/CARTON



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDF-4M6-002 REV: 3

0.4" Quadruple Digit Displays

PART NO. : ELF-4M6SDRVGWB/S337 ECN : Page: 6/6

■ Reliability test items and conditions:

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 = 10 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C /85% RH	1000 HRS	76 PCS	0/1