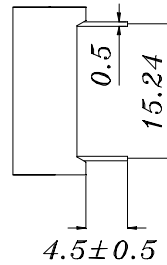
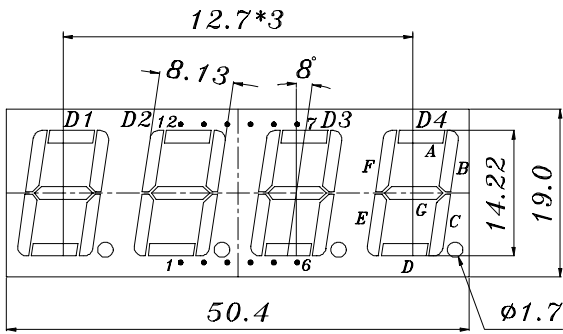




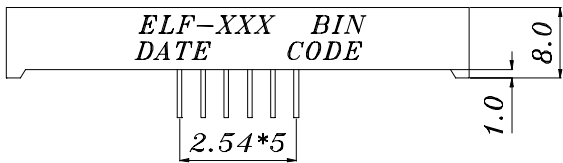
0.56" Quadruple Digit Displays

PART NO. : ELF-512HWB ECN : Page: 2/5

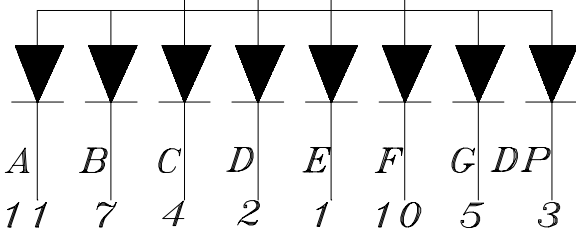
Package Dimensions:



- 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



D4 D3 D2 D1
6 8 9 12



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-512-016 REV: 1

0.56" Quadruple Digit Displays

PART NO. : ELF-512HWB ECN : Page: 3/5

■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	15	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	45	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	50	mA

■ Electronic optical characteristics :

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	Iv	0.18	0.56	----	mcd	IF=10mA
	Per decimal point		0.06	0.15	----		
Peak Wavelength		λ p	----	697	----	nm	IF=10mA
Dominant Wavelength		λ d	----	650	----	nm	IF=10mA
Spectrum Radiation	Bandwidth	△ λ	----	90	----	nm	IF=10mA
Forward Voltage		VF	1.5	2.0	2.4	V	IF=10mA
Reverse Current		IR	----	----	10	μ A	VR=5V



0.56" Quadruple Digit Displays

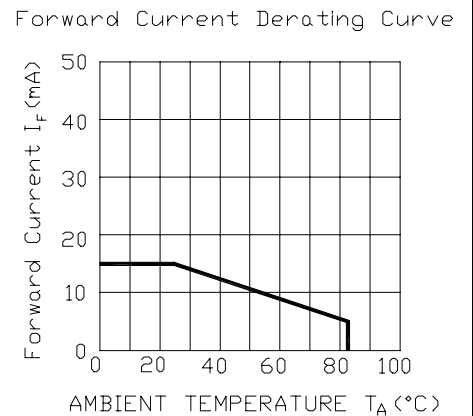
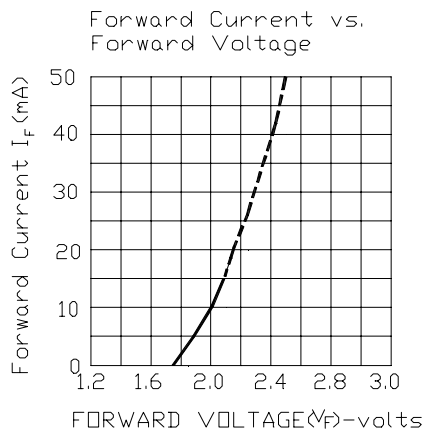
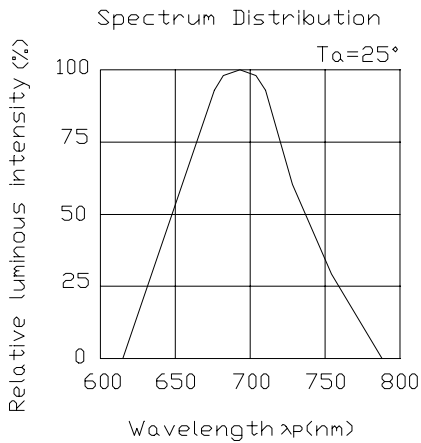
PART NO. : ELF-512HWB

ECN :

Page: 4/5

■ Typical Electro-Optical Characteristic Curves:

CHIP Material:Gap
Emitted Color:Bright Red





EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDF-512-016 REV: 1

0.56" Quadruple Digit Displays

PART NO. : ELF-512HWB ECN : Page: 5/5

■ 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

--	--	--	--	--	--