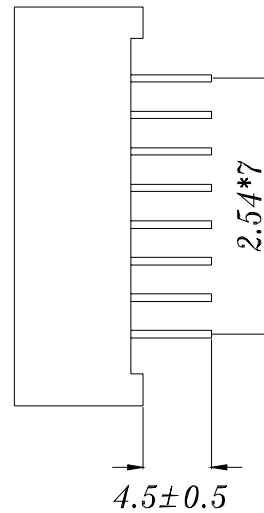
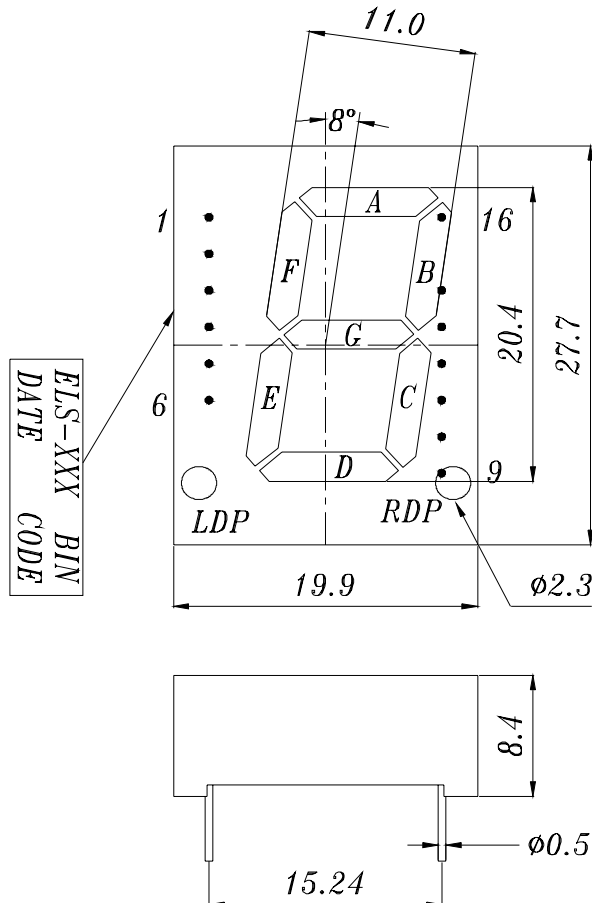




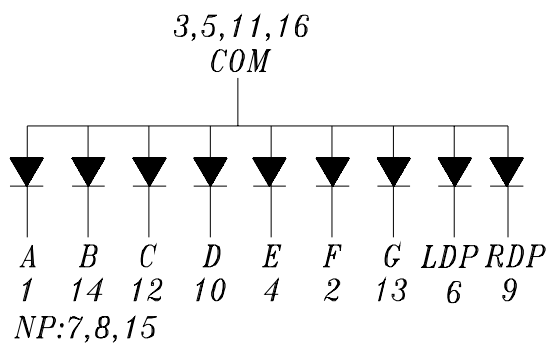
Technical Data Sheet 0.8" Single Digit Displays

ELS-816EWA

Package Dimensions



- COMMON ANODE*
- 1 CATHODE A
 - 2 CATHODE F
 - 3 COMMON ANODE
 - 4 CATHODE E
 - 5 COMMON ANODE
 - 6 CATHODE LDP
 - 7 NO PIN
 - 8 NO PIN
 - 9 CATHODE RDP
 - 10 CATHODE D
 - 11 COMMON ANODE
 - 12 CATHODE C
 - 13 CATHODE G
 - 14 CATHODE B
 - 15 NO PIN
 - 16 COMMON ANODE



- 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.

**Technical Data Sheet**
0.8" Single Digit Displays**ELS-816EWA****■ Absolute maximum ratings at Ta = 25°C :**

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	30	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	100	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	I _{F(Peak)}	160	mA

■ Electronic optical characteristics :

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	I _v	1.4	2.8	----	mcd	I _F =10mA
	Per decimal point		0.5	0.9	----	mcd	I _F =10mA
Peak Wavelength		λ _p	----	635	----	nm	I _F =20mA
Dominant Wavelength		λ _d	----	625	----	nm	I _F =20mA
Spectrum Radiation Bandwidth		△λ	----	45	----	nm	I _F =20mA
Forward Voltage		V _F	1.7	2.0	2.4	V	I _F =20mA
Reverse Current		I _R	----	----	10	μA	V _R =5V



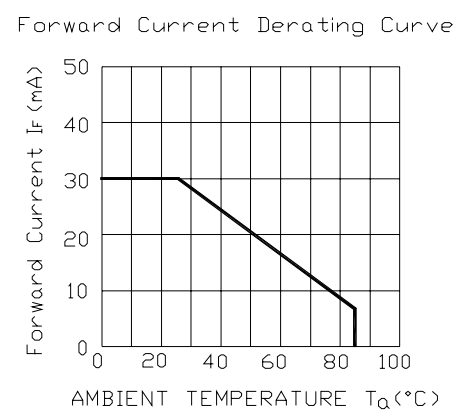
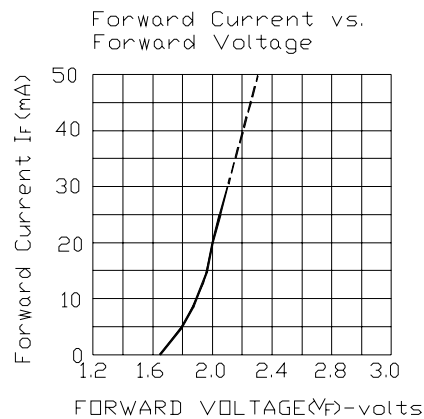
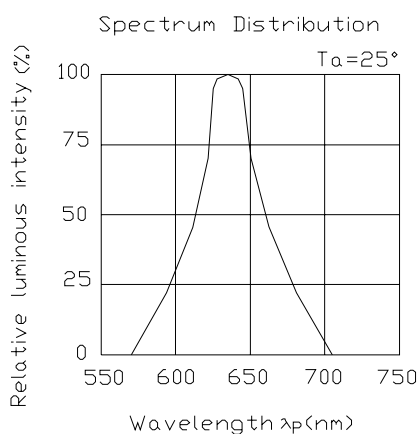
Technical Data Sheet

0.8" Single Digit Displays

ELS-816EWA

■ Typical Electro-Optical Characteristic Curves:

CHIP Material:GaAsP/GaP
Emitted Color:Hi-Eff Red/Orange



**Technical Data Sheet**
0.8" Single Digit Displays**ELS-816EWA****■ 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