DG16032 160 X 32 Dots

■ Mechanical Data

Item	Standard Value	Unit
Module Size	116.5(W) x 44.0(H) x 14.0(T)	mm
Viewing Area	99.0(W) x 24.0(H)	mm
Dot Pixels	160 x 32	dots
Dot Size	0.55 x 0.55	mm
Dot Pitch	0.59 x 0.59	mm

■ Absolute Maximum Ratings

Item	Symbol	Standard Value			Unit
		Min.	Typ.	Max.	
Supply Voltage for Logic	V_{DD}-V_{SS}	0	--	8.0	V
Supply Voltage for LCD Drive	V_{DD}-V_{EE}	0	--	16.5	V
Input Voltage	V_I	V_{SS}-0.3	--	V_{DD}+0.3	V
Operation Temperature	Topr	0	--	50	°C
Storage Temperature	Tstg	-20	--	70	°C

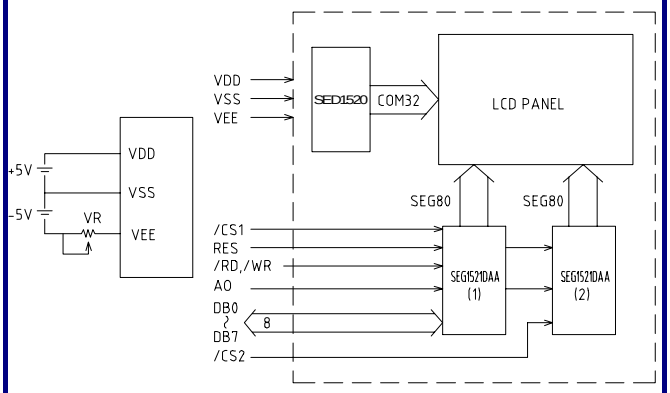
■ Electrical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			Min.	Typ.	Max.	
LCD Supply Voltage	V_{DD}-V_{SS}	--	4.5	5.0	5.5	V
LCD Driver Circuit Power Supply Voltage	V_{DD}-V_{EE}	--	--	7.0	--	V
Input Voltage	V_{IH}	--	0.7xV_{DD}	--	V_{DD}	V
Input Voltage	V_{IL}	--	V_{SS}	--	0.3xV_{DD}	V
Output VoltageD	V_{OH}					
Output Voltage	V_{OL}					
Input Leakage Current	I_{LI}					
Supply Current	I_{DD}	V_{DD} -V_{SS}= 5.0V	--	1.5	4.0	mA
EL Backlight	I_{EL}					

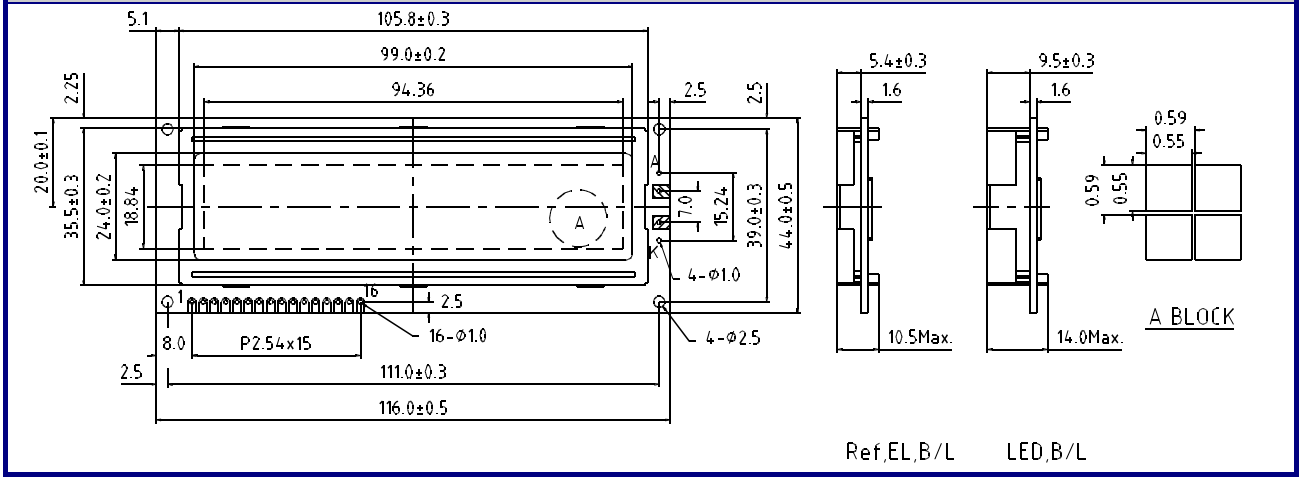
■ Pin Assignment

No.	Symbol	Level	Function
1	AO	H/L	L: Instruction H: Data
2	/CS2	L	Chip Enable Active "L"
3	/CS1	L	Chip Enable Active "L"
4	/RD(E)	H/L	/RD For 80 Series ,E for 68Series
5	/WR(R/W)	H/L	/WR For 80 Series ,R/W for 68Series
6	V_{DD}	--	Power Supply for Circuit
7	V_{SS}	--	Ground
8~15	DB0~DB7	H/L	Data Bus Line
16	RES	H/L	H TOL=80 Series L TOL=68 Series
17	V_{EE}	--	Power Supply for LCD
18	N/C	--	

■ Block Diagram



■ External Dimensions



Rte de Vevey 105 , CH-1618 Châtel St.-Denis, Tel: +41 21 948 20 80, Fax: +41 21 948 20 88

E-Mail: optologic-office@optologic.ch - Web-Site: www.optologic.ch