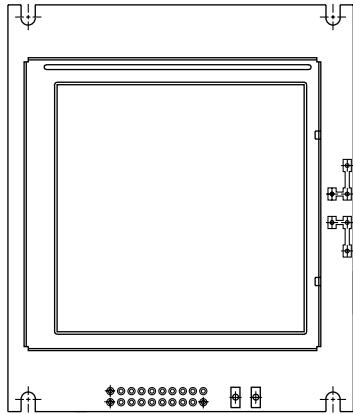


160 x 160 Graphic LCD



FEATURES

- Type: Graphic
- Display format: 160 x 160 dots
- Built-in controller: Sanyo LC7981
- Duty cycle: 1/160
- N.V. optional
- + 5 V power supply
- Chinese version: (LCD-160H160C)
- Compliant to RoHS directive 2002/95/EC


RoHS
COMPLIANT

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	85.0 x 100.0	mm
Viewing Area	62.0 x 62.0	
Dot Size	0.34 x 0.34	
Dot Pitch	0.38 x 0.38	
Mounting Hole	75.0 x 94.0	
Character Size	N/a	

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	V_{DD} to V_{SS}	4.75	5.0	5.25	V
Input Voltage	V_I	- 0.3	-	V_{DD}	

Note

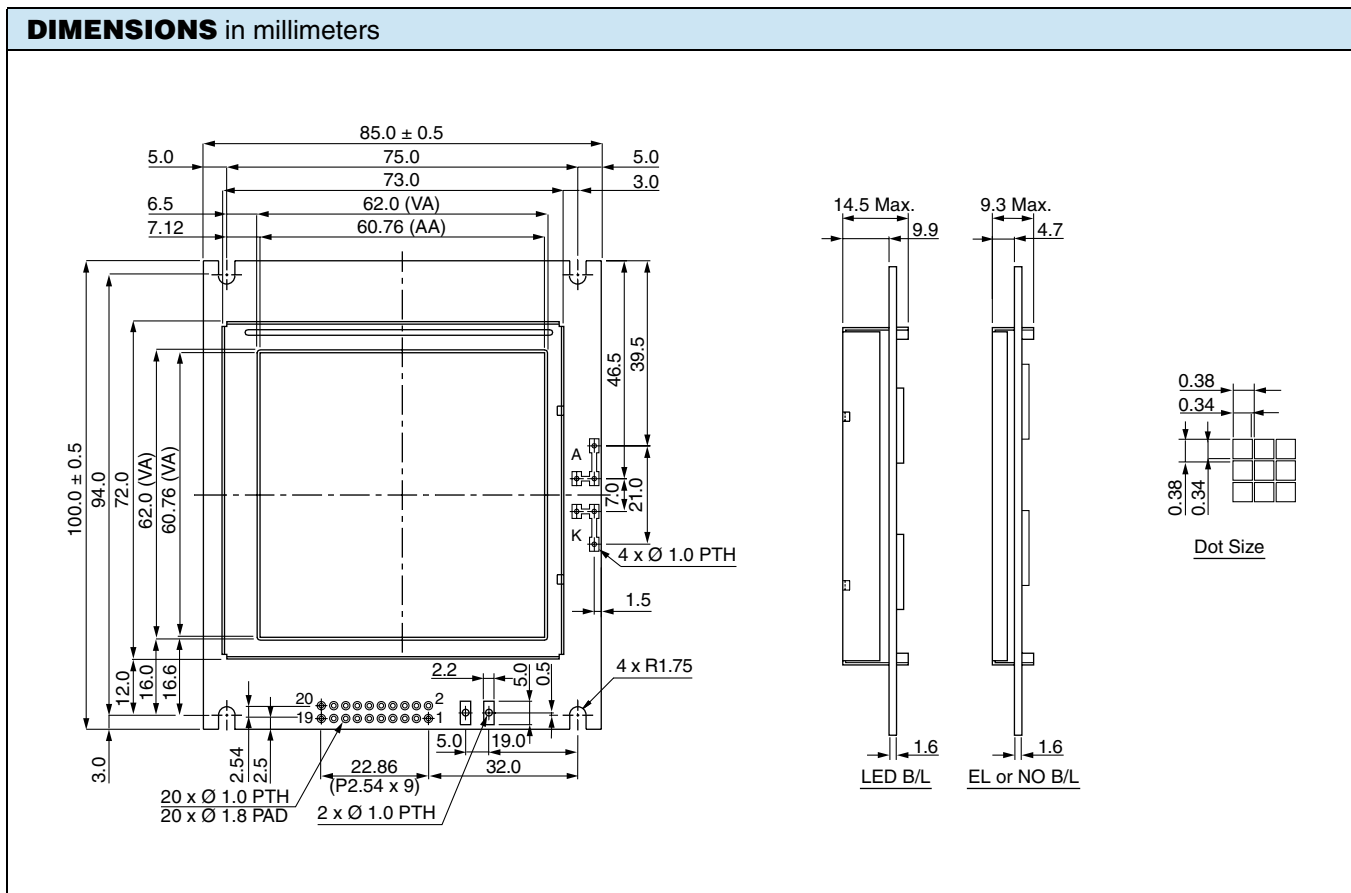
- $V_{SS} = 0$ V, $V_{DD} = 5.0$ V

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	V_{DD}	L level	$0.7 V_{DD}$	-	V_{DD}	V
	V_{IO}	H level	-	-	$0.3 V_{DD}$	
Supply Current	I_{DD}	$V_{DD} = +5$ V	-	7.3	8.4	V
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	16.5	18.0	19.5	V
		0 °C	16.0	17.5	19.0	
		25 °C	15.5	17.0	18.5	
		50 °C	14.5	16.0	17.5	
		70 °C	14.3	15.8	17.3	
LED Forward Voltage	V_F	25 °C	-	4.2	4.6	V
LED Forward Current	I_F	25 °C	-	500	1000	mA
EL Power Supply Current	I_{EL}	$V_{EL} = 110 V_{AC}$, 400 Hz	-	-	5.0	mA

OPTIONS									
PROCESS COLOR						BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	X	X	X	X		X	X	X	

For detailed information, please see the "Product Numbering System" document.

INTERFACE PIN FUNCTION		
PIN NO.	SYMBOL	FUNCTION
1	F _{GND}	Frame ground
2	V _{SS}	Power supply (Ground)
3	V _{DD}	Power supply (+ 5 V)
4	V ₀	Contrast adjustment
5	R/ \bar{W}	H: Read data/L: Write data
6	E	Enable signal
7	\bar{CS}	Chip select
8	RS	Data instruction select
9	NC	No connection
10	\bar{RST}	Reset signal
11	DB0	Data bus line
12	DB1	Data bus line
13	DB2	Data bus line
14	DB3	Data bus line
15	DB4	Data bus line
16	DB5	Data bus line
17	DB6	Data bus line
18	DB7	Data bus line
19	NC	No connection
20	NC/V _{EE}	NC/Negative voltage output





Disclaimer

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