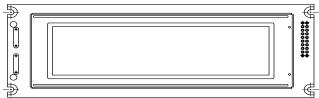


240 x 64 Graphic LCD



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FEATURES

• Type: Graphic

• Display format: 240 x 64 dots

• Built-in controller: RA8822 (or equivalent)

• Duty cycle: 1/64

• + 5 V power supply (2.7 V to 5.0 V selectable)

• Built-in N.V.

· Chinese version

• Compliant to RoHS directive 2002/95/EC

MECHANICAL DATA						
ITEM	STANDARD VALUE	UNIT				
Module Dimension	180.0 x 65.0					
Viewing Area	133.0 x 39.0					
Dot Size	0.49 x 0.49	mm				
Dot Pitch	0.53 x 0.53	mm				
Mounting Hole	176.0 x 54.0					
Character Size	N/a					

ABSOLUTE MAXIMUM RATINGS							
ITEM	CVMBOL	STAN	IDARD V	ALUE	UNIT		
IIEW	SYMBOL	MIN. TYP. MAX.	MAX.	UNII			
Power Supply	V_{DD} to V_{SS}	4.75	5.0	5.25	V		
Input Voltage	VI	- 0.3	-	V_{DD}	V		

Note

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

ELECTRICAL CHARACTERISTICS							
17714	OVMBOL	CONDITION	STANDARD VALUE			T	
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Voltage	V _{DD}	L level	0.7 V _{DD}	-	V_{DD}	V	
input voitage	V _{IO}	H level	0	-	0.3 V _{DD}	V	
Supply Current	I _{DD}	V _{DD} = + 5 V	-	29.0	-	mA	
	V_{DD} to V_{0}	- 20 °C	13.0	13.5	14.1		
Recommended LC Driving		0 °C	12.5	13.1	13.7		
Voltage for Normal Temperature		25 °C	-	12.5	-	V	
Version Module		50 °C	11.1	12.2	13.0		
			70 °C	9.1	11.6	12.8	
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V	
LED Forward Current	I _F	25 °C	-	450	900	mA	
CCFL Forward Voltage	V _F	25 °C	-	215	650	V_{RMS}	
CCFL Forward Current	I _F	25 °C	-	-	5.0	mA	
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA	

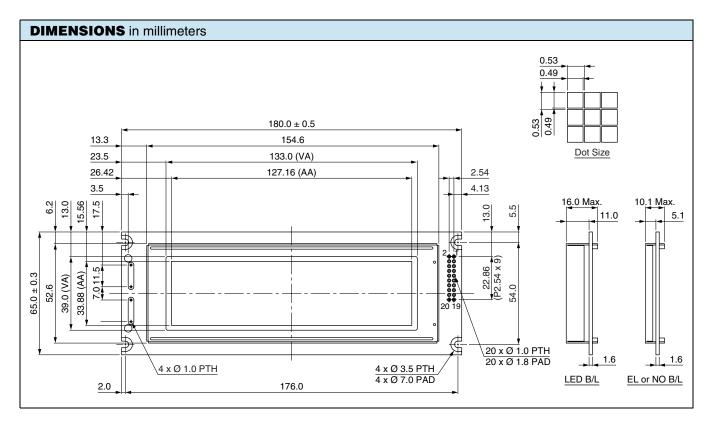
OPTION	OPTIONS								
	PROCESS COLOR						BACKLIGHT		
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	х	х	х	Х		х	х	х	х

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

240 x 64 Graphic LCD



INTERFACE PIN FUNCTION						
PIN NO.	SYMBOL	FUNCTION				
1	A	Power supply for B/L				
2	V _{SS}	Ground				
3	V _{DD}	Power supply for logic				
4	V ₀	Operating voltage LCD driving				
5	WR	8080 family: Read signal/6800 family: Enable clock				
6	RD	8080 family: Write signal/6800 family: Read/write signal				
7	CE	Chip enable				
8	C/D	H: Instruction/L: Data				
9	V _{EE}	Negative voltage output				
10	RES	Reset				
11	DB0	DB0 Data bus line				
12	DB1	DB1 Data bus line				
13	DB2	DB2 Data bus line				
14	DB3	DB3 Data bus line				
15	DB4	DB4 Data bus line				
16	DB5	DB5 Data bus line				
17	DB6	DB6 Data bus line				
18	DB7	DB7 Data bus line				
19	Busy	RA8802 statis				
20	INT	Programable interrupt output				





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