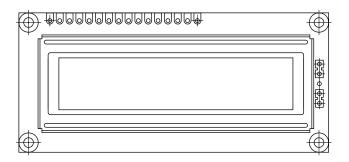


144 x 32 Graphic LCD



FEATURES

• Type: Graphic

Display format: 144 x 32 dotsBuilt-in controller: ST7920

Duty cycle: 1/32+ 5 V power supply

• LED can be driven by pin 15, pin 16 or A, K

• Chinese version

• Same size with LCD-016N002B

• Compliant to RoHS directive 2002/95/EC

MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
Module Dimension	80.0 x 36.0			
Viewing Area	66.0 x 16.0	mm		
Dot Size	0.38 x 0.38			
Dot Pitch	0.42 x 0.42			
Mounting Hole	75.0 x 31.0			
Character Size	N/a			

ABSOLUTE MAXIMUM RATINGS						
ITEM	CVMPOL	STAN	ш			
IIEW	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V _{DD} to V _{SS}	0	-	7.0	V	
Input Voltage	VI	0	-	V_{DD}	V	

Note

• $V_{SS} = 0 \text{ V}, V_{DD} = 5.0 \text{ V}$

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT	
			MIN.	TYP.	MAX.	UNII	
Input Voltage	V_{DD}	V _{DD} = + 5 V	4.5	5.0	5.5	V	
Supply Current	I _{DD}	$V_{DD} = + 5 V$	-	1.2	1.5	mA	
	V _{DD} to V ₀	- 20 °C	-	-	6.0		
Recommended LC Driving Voltage for Normal Temperature Version Module		0 °C	-	-	5.0		
		25 °C	-	4.7	-	V	
		50 °C	4.4	-	-		
		70 °C	4.0	-	-		
LED Forward Voltage	V _F	25 °C	-	4.0	4.3	V	
LED Forward Current - Array		25.00	-	130	260	mA	
LED Forward Current - Edge	I _F	25 °C	-	20	40		

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	

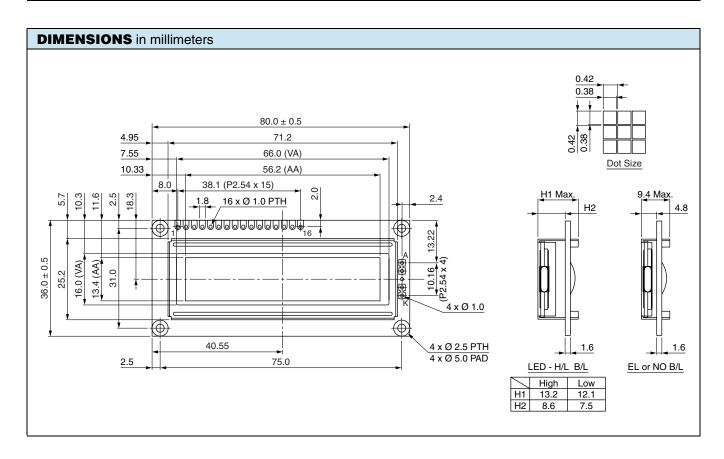
For detailed information, please see the "Product Numbering System" document.

Document Number: 37350 Revision: 16-Mar-09

144 x 32 Graphic LCD



INTERFACE	INTERFACE PIN FUNCTION				
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Ground			
2	V _{DD}	Power supply (+ 5 V)			
3	V ₀	NC			
4	RS	H/L register select signal			
5	R/W	H/L read/write signal			
6	E	$ extsf{H} ightarrow extsf{L}$ enable signal			
7	DB0	H/L data bus line			
8	DB1	H/L data bus line			
9	DB2	H/L data bus line			
10	DB3	H/L data bus line			
11	DB4	H/L data bus line			
12	DB5	H/L data bus line			
13	DB6	H/L data bus line			
14	DB7	H/L data bus line			
15	A	Power supply for B/L			
16	К	Power supply for B/L			





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