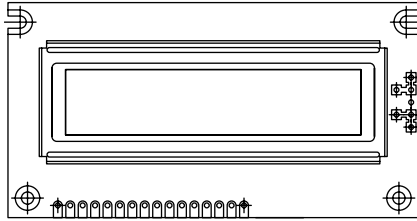


144 x 32 Graphic LCD



FEATURES

- Type: Graphic
- Display format: 144 x 32 dots
- Built-in controller: ST7920
- Duty cycle: 1/32
- + 5 V power supply
- Chinese version
- Same size with LCD-016N002A
- Compliant to RoHS directive 2002/95/EC


RoHS
COMPLIANT

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	84.0 x 44.0 x 9.4	mm
Viewing Area	66.0 x 16.0	
Dot Size	0.38 x 0.38	
Dot Pitch	0.42 x 0.42	
Mounting Hole	79.0 x 36.0	
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	-	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}	-	4.5	5.0	5.5	V
Supply Current	I_{DD}	$V_{DD} = +5$ V	-	1.2	1.5	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	-	-	6.0	V
		25 °C	-	4.7	-	
		70 °C	4.0	-	-	
CCFL Starting Voltage	V_{FLS}	25 °C	-	-	-	V_{RMS}
CCFL Driving Voltage	V_{FLD}	25 °C	-	-	-	
CCFL Driving Current	I_{FLD}	$V_{FQ} = 450$ V_{RMS} , 30 kHz	-	-	-	mA_{RMS}
LED Forward Voltage	V_F	25 °C	-	4.0	4.3	V
LED Forward Current - Array	I_F	25 °C	-	130	260	mA
EL Power Supply Current	I_{EF}	$V_{EL} = 110$ V_{AC} , 400 Hz	-	20	40	

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.



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