RoHS

COMPLIANT

UNIT

٧

MAX.

5.25

 V_{DD}



MECHANICAL DATA

Module Dimension

Viewing Area

Mounting Hole

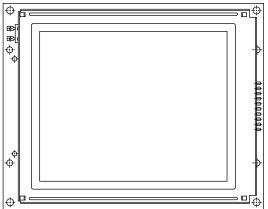
Character Size

Dot Size

Dot Pitch

ITEM

160 x 128 Graphic LCD



FEATURES

• Type: Graphic

• Display format: 160 x 128 dots • Built-in controller: RA6963

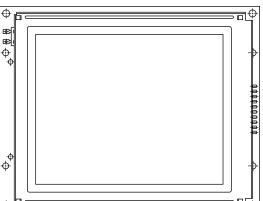
• Duty cycle: 1/128

· Optional N.V.

• + 5 V power supply

• View angle 12° horizontal only

• Material categorization: For definitions of compliance please see www.vishav.com/doc?99912



0.58 x 0.58 122.0 x 96.2

N/a

ΓΑ		ABSOLUTE MAXIMUM RATINGS						
STANDARD VALUE UNIT		ITEM	SYMBOL	STANDARD VALUE				
129.0 x 102.0			I I CIVI	STWIDOL	MIN.	TYP.	MAX	
101.0 x 82.0	mm		Power	V_{DD} to V_{SS}	4.75	5.0	5.25	
0.54 x 0.54			Supply					
0.58 x 0.58			Input Voltage	V_{I}	- 0.3	-	V_{DD}	
122.0 x 96.2		N	ote					

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

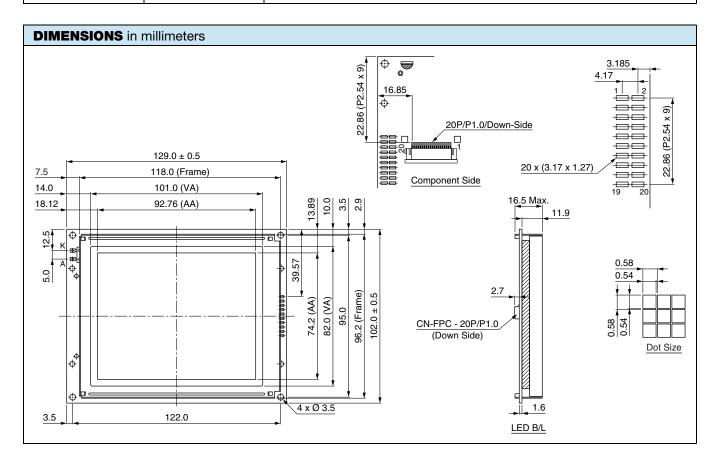
ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE				
		CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Voltage	V_{DD}	-	4.75	5.0	5.25	V	
Supply Current	I _{DD}	$V_{DD} = + 5 V$	-	45.0	50.0	mA	
Recommended LC Driving Voltage for Normal Temperature Version Module		- 20 °C	19.9	21.0	22.1	V	
	V_{DD} to V_0	25 °C	18.6	19.1	19.6		
		70 °C	11.6	9.1	12.8		
CCFL Starting Voltage	V _{FLS}	25 °C	-	-	-	V _{RMS}	
CCFL Driving Voltage	V _{FLD}	25 °C	-	256	560	V _{RMS}	
CCFL Driving Current	I _{FLD}	$V_{FQ} = 450 V_{RMS}$, 30 kHz	-	-	5.0	mA	
LED Forward Voltage	V _F	25 °C	-	4.6	4.6	V	
LED Forward Current	I _F	25 °C	-	-	500	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
	х	х	х	х		х	х	х	х

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



INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	FG	Frame ground			
2	V _{SS}	Power supply (Ground)			
3	V _{DD}	Power supply (+ 5 V)			
4	V _{ADJ}	Contrast adjustment			
5	V _{EE}	Negative voltage output			
6	WR	Data write			
7	RD	Data read			
8	CE	Chip enable			
9	C/D	Command/data read/write			
10	HALT	Clock operating stop signal			
11	Reset	Reset signal			
12	DB0	Data bus line			
13	DB1	Data bus line			
14	DB2	Data bus line			
15	DB3	Data bus line			
16	DB4	Data bus line			
17	DB5	Data bus line			
18	DB6	Data bus line			
19	DB7	Data bus line			
20	NC	No connection			





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FGH-PW DEM 128064O SBH-PW-N DEM 240160A SBH-PW-N DEM 320240B FGH-PW-N DEM 320240C FGH-PW EA W240-7KHLW
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