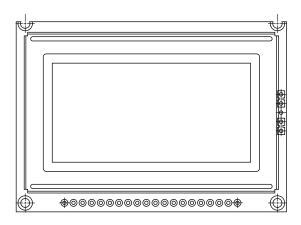
## LCD-128H064B



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## 128 x 64 Graphic LCD



MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module dimension	75.0 x 52.7				
Viewing area	60.0 x 32.6				
Dot size	0.39 x 0.39				
Dot pitch	0.43 x 0.43	mm			
Mounting hole	70.0 x 49.7				
Character size	n/a				

## FEATURES

- Type: graphic
- Display format: 128 x 64 dots
- Built-in controller: NT 7107, NT 7108
- Duty cycle: 1/64
- +5 V power supply
- N.V. built-in
- LCD-128H064S: Chinese character version
- LCD-128H064BP1: +3.3 V option
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN				
	STIVIDUL	MIN.	TYP.	MAX.	UNIT	
Power supply	$V_{\text{DD}}$ to $V_{\text{SS}}$	4.75	5.0	5.25	v	
Input voltage	VI	-0.3	-	$V_{DD}$		

Note

<sup>•</sup>  $V_{SS} = 0 V, V_{DD} = 5.0 V$ 

ELECTRICAL CHARACTERISTICS							
	SYMBOL	CONDITION	STANDARD VALUE				
ITEM			MIN.	TYP.	MAX.	UNIT	
Input voltage	V <sub>DD</sub>	L level	0.7 V <sub>DD</sub>	-	V <sub>DD</sub>	V	
input voltage	V <sub>IO</sub>	H level	0	-	0.3 V <sub>DD</sub>		
Supply current	I <sub>DD</sub>	$V_{DD} = +5 V$	-	4.0	5.2	mA	
	$V_{DD}$ to $V_0$	-20 °C	9.9	10.4	10.9		
		0 °C	9.7	10.2	10.7	V	
Recommended LC driving voltage for normal temperature version module		25 °C	7.5	8.0	8.5		
		50 °C	8.6	9.1	9.6		
		70 °C	8.4	8.9	9.4		
LED forward voltage	V <sub>F</sub>	25 °C	-	4.2	4.6	V	
LED forward current - edge	١ <sub>F</sub>	25 °C	-	100	150	mA	
EL power supply current	I <sub>EL</sub>	V <sub>EL</sub> = 110 V <sub>AC</sub> , 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	-

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

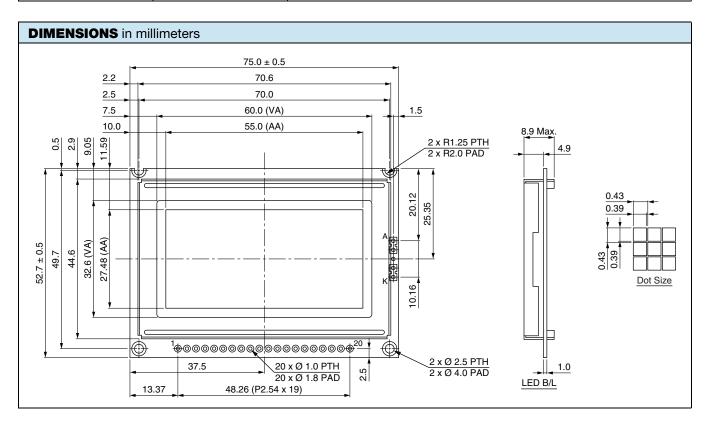


COMPLIANT



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INTERFACE PIN FUNCTION						
PIN NO.	SYMBOL	FUNCTION				
1	V <sub>DD</sub>	Power supply (+5 V)				
2	GND	Power supply (ground)				
3	V <sub>0</sub>	Contrast adjustment				
4	DB0	Data bus line				
5	DB1	Data bus line				
6	DB2	Data bus line				
7	DB3	Data bus line				
8	DB4	Data bus line				
9	DB5	Data bus line				
10	DB6	Data bus line				
11	DB7	Data bus line				
12	CS1	Chip select for IC1				
13	CS2	Chip select for IC2				
14	RST	Reset signal				
15	R/W	Data read / write				
16	D/I	Data / instruction				
17	E	Enable signal				
18	V <sub>EE</sub>	Negative voltage output				
19	A	Power supply for LED (+4.2 V)				
20	К	Power supply for LED (0 V)				



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