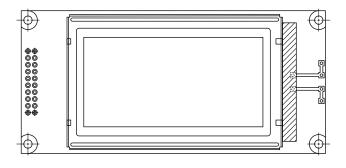
LCD-128H064K



Vishay

128 x 64 Graphic LCD



MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module dimension	113.0 x 53.0				
Viewing area	72.0 x 40.0				
Dot size	0.48 x 0.48				
Dot pitch	0.52 x 0.52	mm			
Mounting hole	108.0 x 46.0				
Character size	n/a				

FEATURES

- Type: graphic
- Display format: 128 x 64 dots
- Built-in controller: NT7107, NT7108
- Duty cycle: 1/64
- +5 V power supply
- N.V. built-in
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

ABSOLUTE MAXIMUM RATINGS					
SAMBOI	STANDARD VALUE			UNIT	
STIVIDUL	MIN.	TYP.	MAX.	UNIT	
V_{DD} to V_{SS}	4.75	5.0	5.25	V	
VI	- 0.3	-	V_{DD}	v	
	$\begin{array}{c} \textbf{SYMBOL} \\ \textbf{V}_{\text{DD}} \text{ to } \textbf{V}_{\text{SS}} \end{array}$	SYMBOL STAN MIN. V _{DD} to V _{SS} 4.75	SYMBOL STANDARD V/ MIN. TYP. VDD to VSS 4.75 5.0	STANDARD VALUE MIN. TYP. MAX. V _{DD} to V _{SS} 4.75 5.0 5.25	

Note

• $V_{SS} = 0 V, V_{DD} = 5.0 V$

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			LINUT
		CONDITION	MIN.	TYP.	MAX.	UNIT
Input voltage	V _{DD}	L level	0.7 V _{DD}	-	V _{DD}	V
	V _{IO}	H level	0	-	0.3 V _{DD}	V
Supply current	I _{DD}	$V_{DD} = +5 V$	-	2.5	7.5	mA
Recommended LC driving voltage for normal temperature version module	V_{DD} to V_0	-20 °C	9.9	10.4	10.9	
		0 °C	9.7	10.2	10.7	v
		25 °C	8.9	9.4	9.9	
		50 °C	8.6	9.1	9.6	
		70 °C	8.4	8.9	9.4	
LED forward voltage	VF	25 °C	-	4.2	4.6	V
LED forward current - array		25 °C	-	330	660	mA
LED forward current - edge	IF	25 0	-	120	240	
EL power supply current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA

OPTIONS									
PROCESS COLOR						BACK	LIGHT		
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.

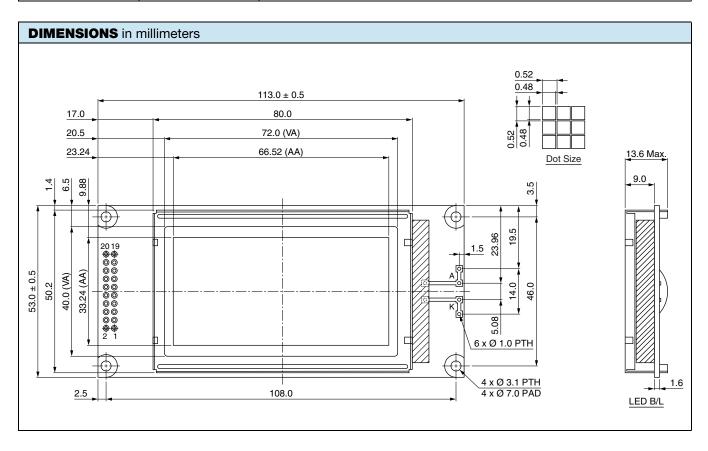
Pb-free RoHS

COMPLIANT



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INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Ground			
2	V _{DD}	Power supply for logic			
3	V ₀	Operating voltage LCD driving			
4	D/I	Date / instruction			
5	R/W	H / L read / write signal			
6	E	$H \rightarrow L$ enable signal			
7	DB0	Data bus line			
8	DB1	Data bus line			
9	DB2	Data bus line			
10	DB3	Data bus line			
11	DB4	Data bus line			
12	DB5	Data bus line			
13	DB6	Data bus line			
14	DB7	Data bus line			
15	CS1	$H \rightarrow chip 1 enable$			
16	CS2	$H \rightarrow chip 2 enable$			
17	RES	Reset			
18	V _{OUT}	Negative voltage output			
19	A	Power supply for backlight			
20	К	Power supply for backlight			



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