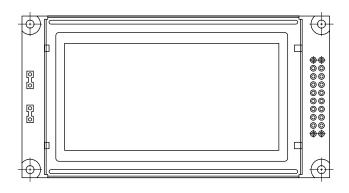




RoHS

COMPLIANT

128 x 64 Graphic LCD



MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module Dimension	95.5 x 50.2				
Viewing Area	72.0 x 40.0				
Dot Size	0.48 x 0.48				
Dot Pitch	0.52 x 0.52	mm			
Mounting Hole	90.5 x 45.2				
Character Size	N/a				

FEATURES

- Type: Graphic
- Display format: 128 x 64 dots
- Built-in controller: Samsung KS 0107/KS 0108 (or equivalent)
- Duty cycle: 1/64
- + 5 V power supply
- N.V. built-in
- Compliant to RoHS directive 2002/95/EC

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN				
	STINDUL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V_{DD} to V_{SS}	4.75	5.0	5.25	V	
Input Voltage	VI	- 0.3	-	V_{DD}	v	

Note

• $V_{SS} = 0 V$, $V_{DD} = 5.0 V$

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STA				
			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	
	V_{DD} to V_0	- 20 °C	9.9	10.4	10.9	v	
Recommended LC Driving		D° 0	9.7	10.2	10.7		
Voltage for Normal Temperature		25 °C	8.9	9.4	9.9		
Version Module		50 °C	8.6	9.1	9.6		
		70 °C	8.4	8.9	9.4		
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V	
LED Forward Current - Array				330	660		
LED Forward Current - Edge	١ _F	25 °C	-	120	240	mA	
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA	

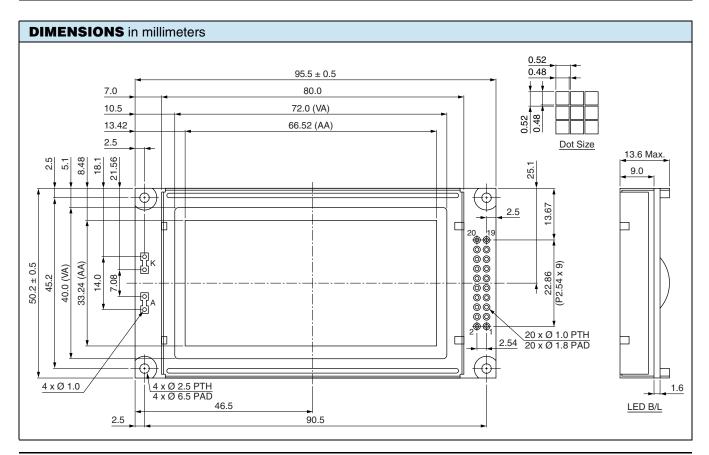
OPTIONS									
	PROCESS COLOR					BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	x	х	х	х		x	х	х	

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

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INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Ground			
2	V _{DD}	Power supply			
3	V ₀	Contrast adjustment			
4	D/I	Data/instruction			
5	R/W	Data read/write			
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	Chip select for IC1			
16	CS2	Chip select for IC2			
17	RST	Reset			
18	V _{EE}	Negative voltage output			
19	A	Power supply for LED (+ 4.2 V), $R_A = 0 \Omega$			
20	К	Power supply for LED (0 V)			







Vishay

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