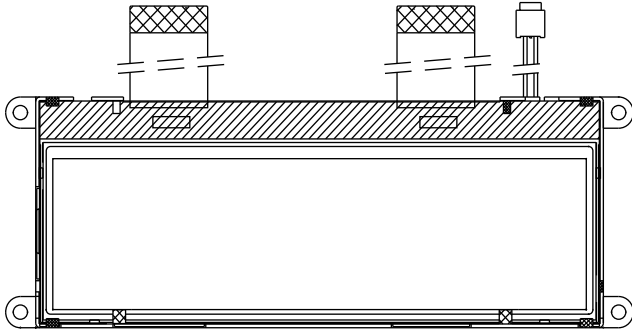


240 x 64 Graphic LCD



FEATURES

- Type: Graphic
- Display format: 240 x 64 dots
- Built-in controller: Sitronix ST7565P
- Duty cycle: 1/65
- + 3.3 V power supply
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	142.5 x 51.7	mm
Viewing Area	130.2 x 37.6	
Dot Size	0.50 x 0.50	
Dot Pitch	0.53 x 0.53	
Mounting Hole	142.5 x 44.7	
Character Size	n/a	

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	V_{DD} to V_{SS}	- 0.3	3.3	5.0	V
Input Voltage	V_I	V_{SS}	-	V_{DD}	

Note

- $V_{SS} = 0$ V, $V_{DD} = 5.0$ V

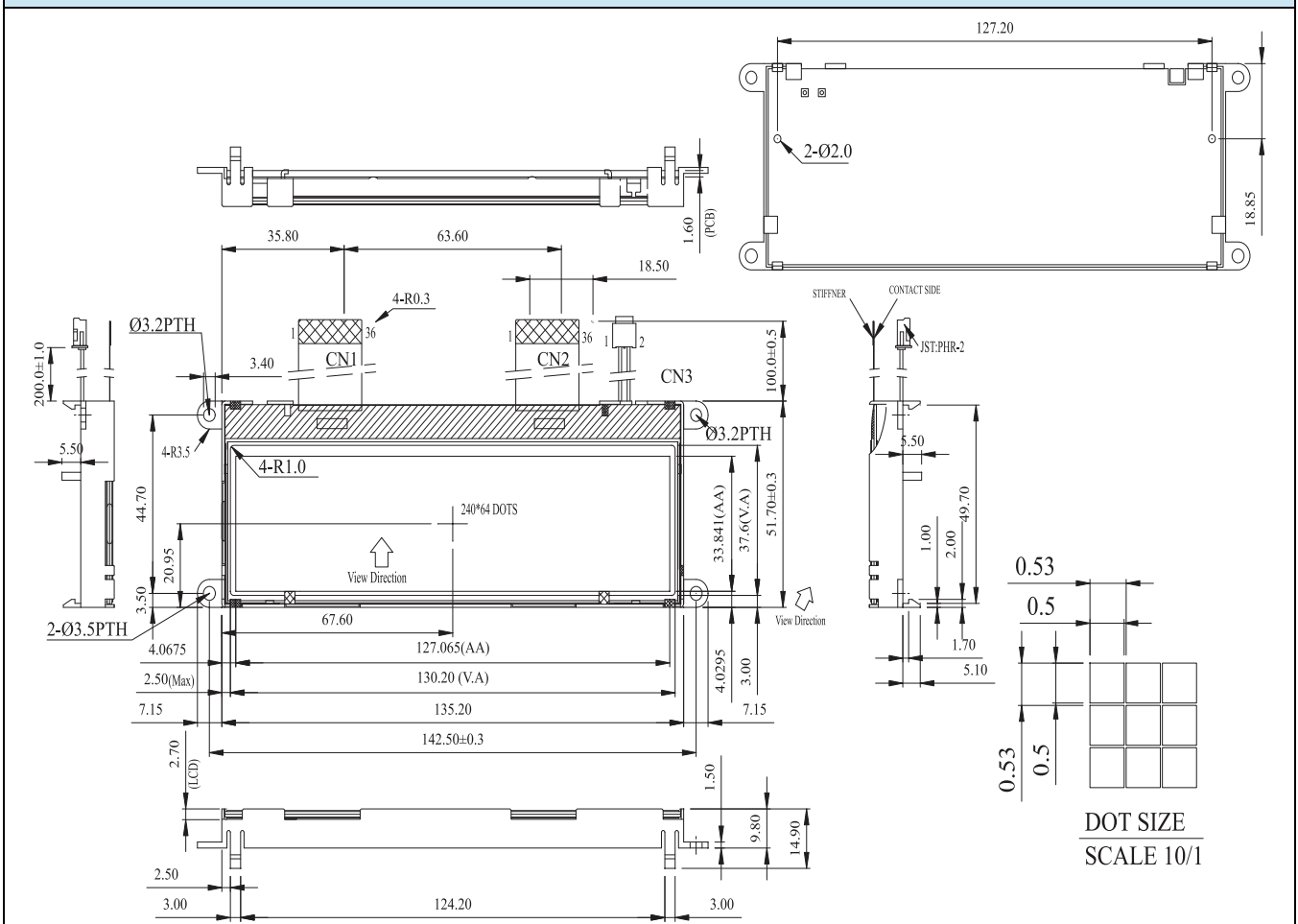
ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	V_{DD}	-	3.0	3.3	3.6	V
Supply Current	I_{DD}	$V_{DD} = + 3.3$ V	281	337	338	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	-	-	-	V
		0 °C	-	-	-	
		25 °C	9.3	10.0	10.7	
		50 °C	-	-	-	
		70 °C	-	-	-	
LED Forward Voltage	V_F	25 °C	3.4	3.5	3.6	V
LED Forward Current	I_F	25 °C	80	101	150	mA

OPTIONS									
PROCESS COLOR						BACKLIGHT			
TN	STN GRAY	STN YELLOW	STN BLUE	FSTN B&W	STN COLOR	NONE	LED	EL	CCFL
-	x	-	x	x	-	-	x	-	-

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

INTERFACE PIN FUNCTION

PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	NC	19	V _{DD}
2	FR	20	V _{SS}
3	CL	21	V _{out}
4	$\overline{\text{DOF}}$	22	CAP3N
5	$\overline{\text{CS1}}$	23	CAP1P
6	$\overline{\text{CS2}}$	24	CAP1N
7	$\overline{\text{RES}}$	25	CAP2N
8	A ₀	26	CAP2P
9	$\overline{\text{WR}}$	27	V ₁
10	RD	28	V ₂
11	DB0	29	V ₃
12	DB1	30	V ₄
13	DB2	31	V ₅
14	DB3	32	V _R
15	DB4	33	C86
16	DB5	34	$\overline{\text{PS}}$
17	DB6	35	NC
18	DB7	36	NC

DIMENSIONS in millimeters




Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.