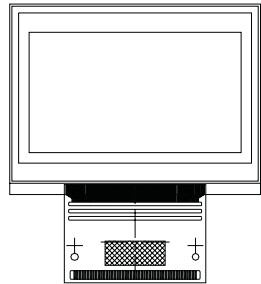


128 x 64 Dots Graphic LCD



FEATURES

- Built-in controller (KS0713)
- + 3V or +5V power supply
- 1/64 duty cycle
- Optional touch panel

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	56.0 x 42.5	mm
Viewing Area	52.0 x 33.5	mm
Dot Size	0.35 x 0.4	mm
Dot Pitch	0.37 x 0.42	mm

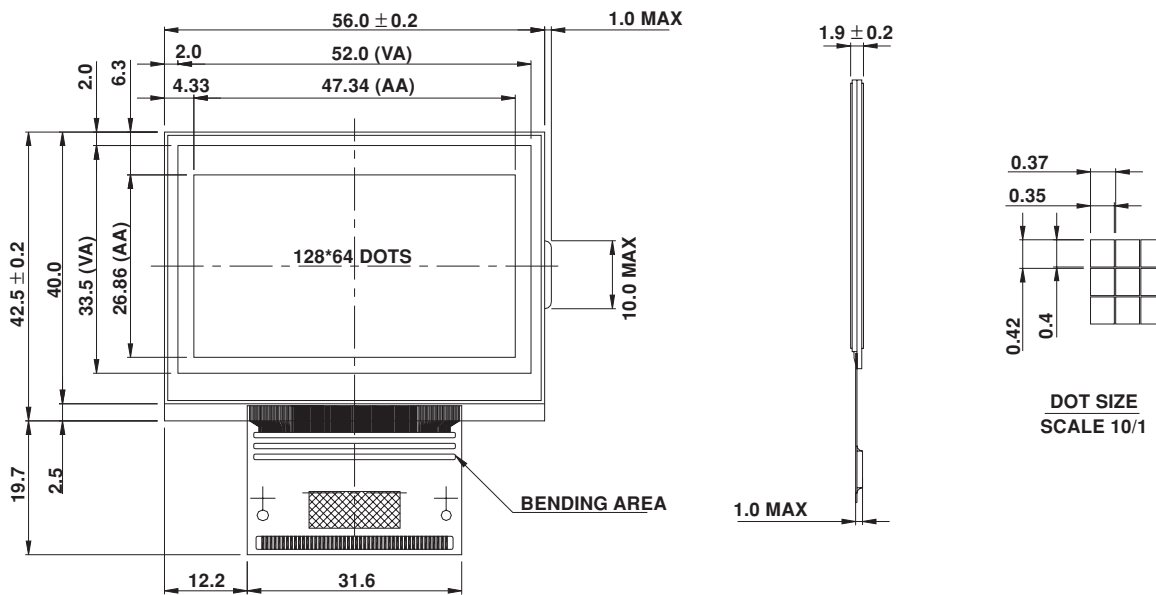
ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	- 2.4	-	5.5	V
Input Voltage	VI	- 0.3	-	VDD	V

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	VDD	L level	$0.8V_{DD}$	-	V_{DD}	V
	VIO	H level	-	-	-	V
Supply Current	IDD	VDD = 5V	-	-	-	mA
Recommended LC Driving Voltage for Normal Temp.	VDD-V0	0°C	9.3	9.8	10.3	V
Version Module		25°C	7.9	8.4	8.9	
		50°C	7.0	7.5	8.0	
EL Power Supply Current	IEL	Vel =110VAC;400Hz	-	-	-	mA

PIN NUMBER	SYMBOL	PIN NUMBER	SYMBOL
1	NC	24	CLS
2	TEMPS	25	MS
3	INTRS	26	DUTY 1
4	HPM	27	DUTY 0
5	DCDC5B	28	DB7
6	BSTS	29	DB6
7	V4	30	DB5
8	V3	31	DB4
9	V2	32	DB3
10	V1	33	DB2
11	V0	34	DB1
12	VR	35	DB0
13	C2 -	36	E_RD
14	C2 +	37	RW_WR
15	C1 -	38	RS
16	C1 +	39	RESETB
17	C3 -	40	CS2
18	C3 +	41	CS1B
19	Vout	42	DISP
20	Vdd	43	CL
21	Vss	44	M
22	PS	45	FRS
23	MI	46	NC

DIMENSIONS in millimeters





Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.