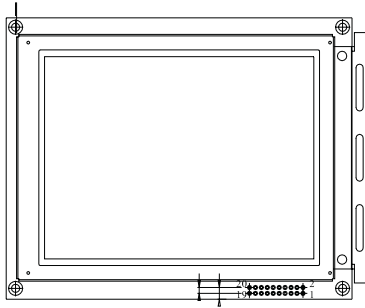


## 320 x 24 Dots Graphic LCD



### FEATURES

- Built-in SED 1335 controller and SRAM
- Built-in negative voltage generator
- 1/240 duty cycle
- Touch screen option (analog type)
- Temperature compensation option

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	148.0 x 120.24	mm
Viewing Area	120.14 x 92.14	mm
Dot Size	0.34 x 0.34	mm
Dot Pitch	0.36 x 0.36	mm

ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	4.75	5.0	5.25	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	$0.7V_{DD}$	-	$V_{DD}$	V
	VIO	H level	0	-	$0.3V_{DD}$	V
Supply Current	IDD	VDD = 5V	-	100	105	mA
Recommended LC Driving Voltage for Normal Temp. Version Module	VDD - V0	0°C	22.0	23.0	24.0	V
		25°C	21.3	22.2	23.0	
		50°C	19.5	20.8	22.1	
CCFL Starting Voltage	VFLS	25°C	-	600	-	Vrms
CCFL Driving Voltage	VFLD	25°C	-	268	-	Vrms
CCFL Driving Current	IFLD	VFQ = 450Vrms 30KHz	-	5.0	-	mArms
LED Forward Voltage	VF	25°C	-	4.2	4.6	V
LED Forward Current	IF	25°C	-	180	360	mA
EL	IEL	Vel = 110VAC; 400Hz	-	-	5.0	mA





## 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.