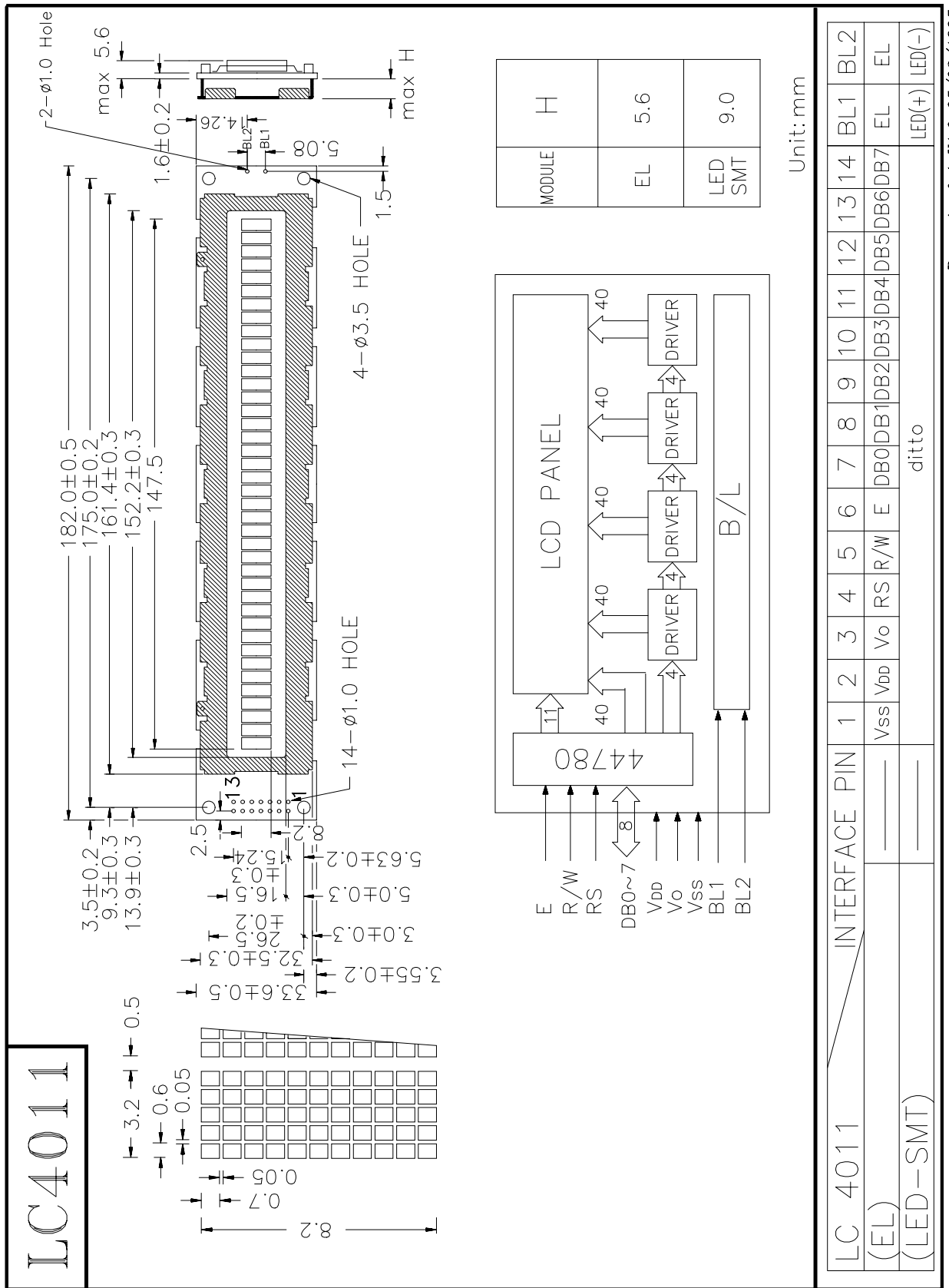


1. LCM Drawing



2. Electrical spec

LC4011

40 Characters X 1 Lines
1/11 DUTY 5x11Font

ELECTRICAL CHARACTERISTICS

$T_a = 25^{\circ}\text{C}$ $V_{DD} = 5.0 \pm 0.25 \text{ v}$

Input "High" Voltage (V_{IH}) 2.2 V min

Input "Low " Voltage (V_{IL}) 0.6 V max

APPLICABLE FOR -LOP

	<u>TN</u>		<u>STN</u>	
	<u>TEMPERATURE</u>		<u>TEMPERATURE</u>	
	<u>NORMAL</u>	<u>WIDE</u>	<u>NORMAL</u>	<u>WIDE</u>
Supply Current, (I_{DD})Typ., mA	3	3	N/A	N/A
Recommend LCD drive Voltage:				
($V_{DD}-V_O$) at $T_a = -20^{\circ}\text{C}$, Volts	N/A	9.4	N/A	N/A
$T_a = 0^{\circ}\text{C}$	4.9	9.1	N/A	N/A
$T_a = 25^{\circ}\text{C}$	4.6	8.7	N/A	N/A
$T_a = 50^{\circ}\text{C}$	4.3	8.4	N/A	N/A
$T_a = 70^{\circ}\text{C}$	N/A	8.1	N/A	N/A

ABSOLUTE MAXIMUM RATINGS

	<u>NORMAL</u>		<u>WIDE</u>	
	<u>TEMPERATURE</u>		<u>TEMPERATURE</u>	
	<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>
Input Voltage (V_I) V	0	V_{DD}	0	V_{DD}
Supply for Logic ($V_{DD}-V_{SS}$) V	0	7	0	7
Supply for LCD ($V_{DD}-V_O$) V	0	10	0	10
Operating Temperature T_{OP} , $^{\circ}\text{C}$	0	+50	-20	+70
Storage Temperature T_{ST} , $^{\circ}\text{C}$	-20	+70	-30	+80

OPTION

BACKLIGHT

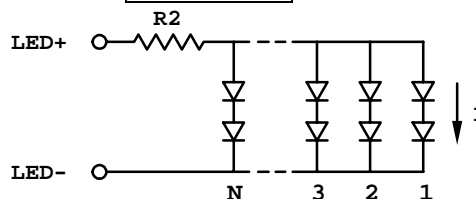
- BEXX -- EL
- BLSXX -- LED SMT

INPUT VOLTAGE & CURRENT

100 V_{RMS} (400-800) Hz; 4.3mA
+ 5V DC; 450 mA $R_2 = 1.8 \text{ Ohm } 1 \text{ W}$

* R_2 : Suggest BL current limit resistor on customer board

SMT LED



$N = 45, I = 10 \text{ mA}$

..... Single +5V for wide temperature operation

SINGLE +5V OPERATION only

-- not available --

TEMPERATURE COMPENSATION

-- not available --