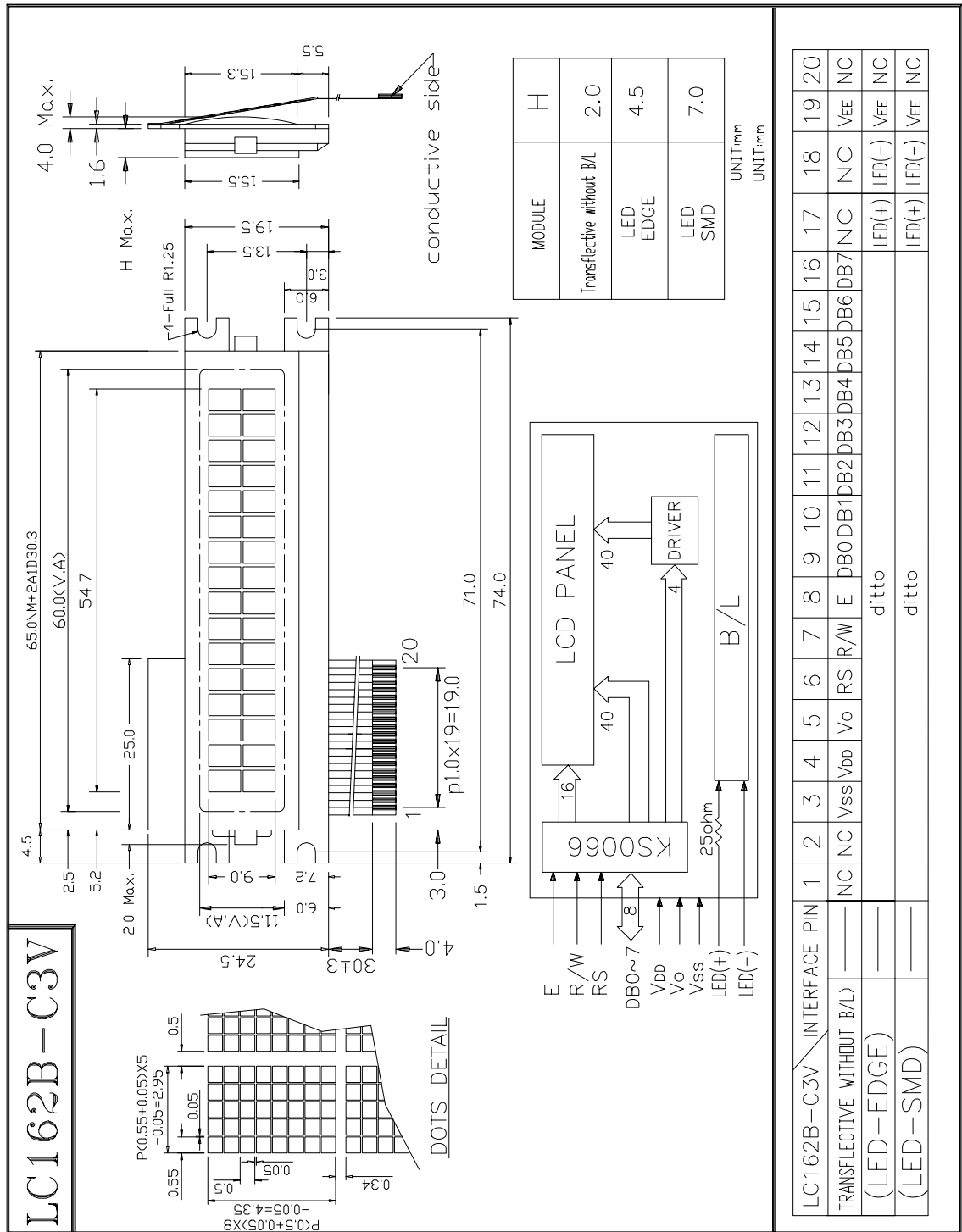


1. LCM Drawing



LC162B-C3V	INTERFACE	PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
TRANSFLECTIVE WITHOUT B/L		NC	NC	V <sub>SS</sub>	V <sub>DD</sub>	V <sub>O</sub>	RS	R/W	E	DB0	DB1	DB2	DB3	DB4	DB5	DB6	DB7	NC	NC	NC	VEE	NC		
(LED-EDGE)																					LED(+)	VEE	NC	
(LED-SMD)																						LED(+)	VEE	NC

2. Electrical spec

**LC162B-C3V**

16 Characters X 2 Lines  
1/16 DUTY 5x8 Font

**ELECTRICAL CHARACTERISTICS**

T<sub>a</sub> = 25°C V<sub>DD</sub> = 2.7 ~ 5.5 v

Input "High" Voltage (V<sub>IH</sub>) 2.2 V min

Input "Low " Voltage (V<sub>IL</sub>) 0.6 V max

**APPLICABLE FOR -LNA**

	<u>TN</u>		<u>STN</u>	
	<u>TEMPERATURE</u>		<u>TEMPERATURE</u>	
	<u>NORMA</u>	<u>WIDE</u>	<u>NORMA</u>	<u>WIDE</u>
Supply Current, (I <sub>DD</sub> )Typ., mA	N/A	N/A	N/A	6
Recommend LCD drive Voltage: (V <sub>DD</sub> -V <sub>O</sub> ) at T <sub>a</sub> = -20°C, Volts	N/A	N/A	N/A	4.5
T <sub>a</sub> = 0°C	N/A	N/A	N/A	4.5
T <sub>a</sub> = 25°C	N/A	N/A	N/A	4.5
T <sub>a</sub> = 50°C	N/A	N/A	N/A	4.5
T <sub>a</sub> = 70°C	N/A	N/A	N/A	4.5

**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 <sub>I</sub> ) V	0	V <sub>DD</sub>	0	V <sub>DD</sub>
Supply for Logic (V <sub>DD</sub> -V <sub>SS</sub> ) V	0	7	0	7
Supply for LCD (V <sub>DD</sub> -V <sub>O</sub> ) V	0	10	0	10
Operating Temperature T <sub>OP</sub> , °C	0	+50	-20	+70
Storage Temperature T <sub>ST</sub> , °C	-20	+70	-30	+80

**OPTION**

**BACKLIGHT**

- TRANSFLECTIVE WITHOUT B/L
- BLEXX -- LED EDGE
- BLSXX -- LED SMT

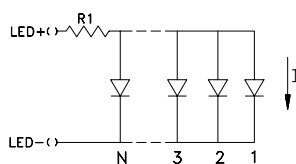
**INPUT VOLTAGE & CURRENT**

+ 3V DC; 40 mA R1 = 24.9 Ohm 1/8W  
+ 3V DC; 100 mA R2 = 10 Ohm 1/4W

\*R1: Suggest BL current limit resistor on LCM

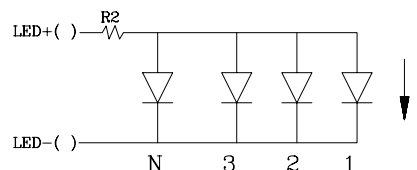
\*R2: Suggest BL current limit resistor on customer board

**EDGE LED**



N = 4, I = 10 mA

**SMT LED**



N = 10, I = 10 mA