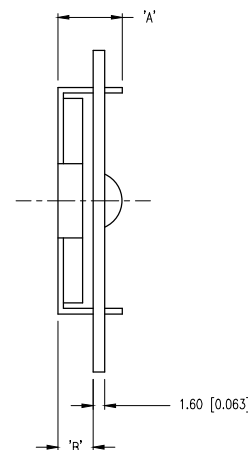
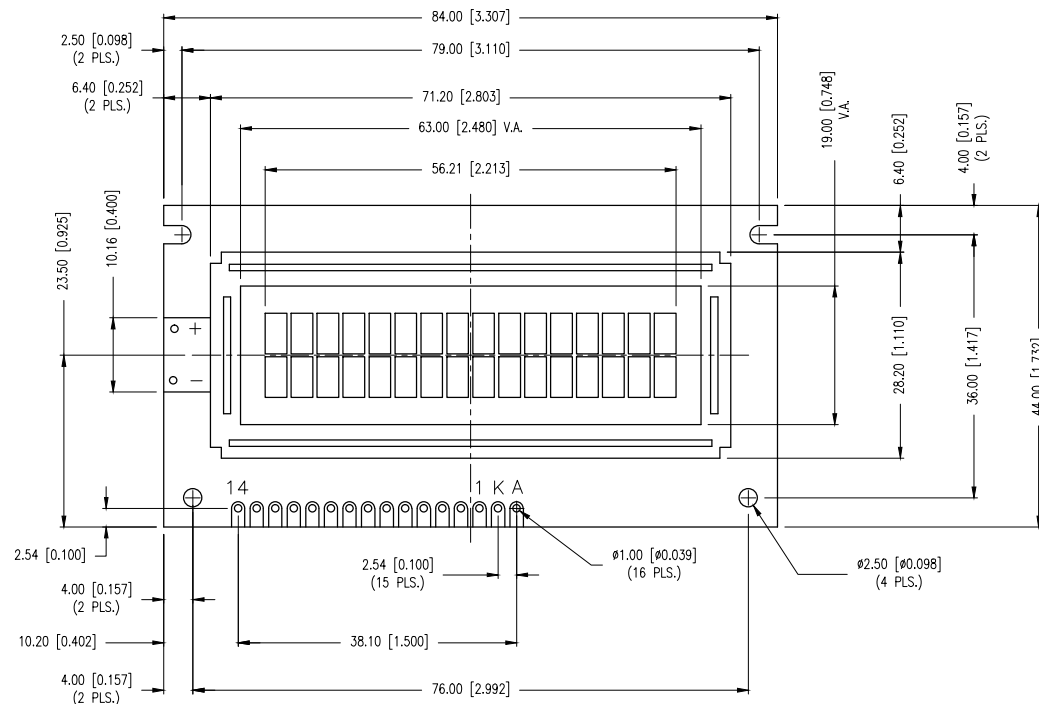


TYPE	DIM.	A	B
WITH BACKLIGHT		12.7	8.1
NO BACKLIGHT		8.1	4.1



UNCONTROLLED DOCUMENT



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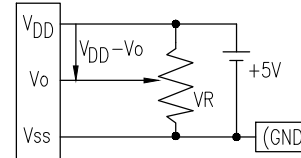
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UNIT: mm [INCH]	(Pb)
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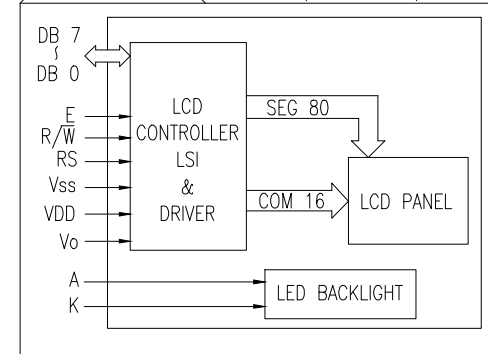
PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	V _{SS}	-	POWER SUPPLY	GND (0V)
2	V _{DD}	-		5V
3	V _O	-		FOR LCD DRIVE
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
5	R/W	H/L	H: DATA READ (MODULE-->MPU) L: DATA WRITE (MODULE<--MPU)	
6	E	H,H->L	ENABLE	
7~14	DB0~DB7	H/L	DATA BUS-SOFTWARE SELECTABLE 4 OR 8 BIT MODE.	
A	A	-	ANODE	LED BACKLIGHT
K	K	-	CATHODE	LED BACKLIGHT

V_{DD}-V_O: LCD DRIVING VOLTAGE
VR: 10KΩ-20KΩ



BLOCK DIAGRAM 16 x 2, 1/16 DUTY, 1/5 BIAS



ELECTRICAL CHARACTERISTICS

V_{DD}=4.7V to 5.3V, T_A=25°C

ITEM			SYMBOL	CONDITION	STANDARD VALUE			UNIT
					MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC			V _{DD} -V _{SS}	—	—	5.0	—	V
SUPPLY CURRENT FOR LOGIC			I _{DD}	V _{DD} =5V	—	2.0	3.0	mA
INPUT VOLTAGE		HIGH	V _{IH}	—	2.2	—	4.7	V
		LOW	V _{IL}	—	0	—	0.6	V
OUTPUT VOLTAGE		HIGH	V _{OH}	—	2.4	—	—	V
		LOW	V _{OL}	—	—	—	0.4	V
*LED BACKLIGHT	VOLTAGE		V _f	I _f =160mA	—	4.2	4.6	V
	CURRENT		I _f	—	—	160	—	mA
	POWER CONSUMPTION		P _D	—	—	660	—	mW
	LUMINOUS		L	I _f =160mA	70	—	—	cd/m ²
	COLOR		—	—	—	—	—	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	-	4.2@50°C	4.8@0°C	V
INPUT VOLTAGE	V _I	T _a =25°C	V _{SS}	V _{DD}	V
OPERATING TEMPERATURE	T _{opr}	LCM-S	0	50	°C
STORAGE TEMPERATURE	T _{stg}	LCM-S	-20	70	°C

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.=+DECIMAL PRECISION -0.00, MAX.=+0.00 -DECIMAL PRECISION



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5.56mm TALL, 5 x 8 DOT MATRIX, 16 x 2 CHARACTER LCD, MODULE, TRANSFLECTIVE, STN YELLOW, 1/16 DUTY, 1/5 BIAS

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DATE: 03.25.99
PAGE: 2 OF 2
SCALE:
UNIT: mm [INCH]

DRAWN BY: SA/BC
CHKD BY: --
APRVD BY: --
(P)