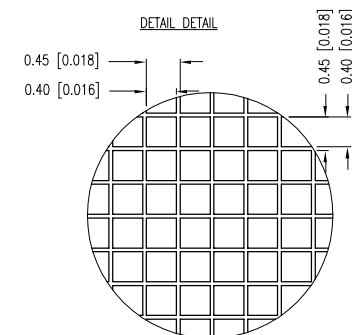
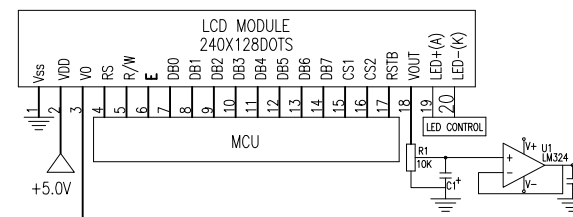
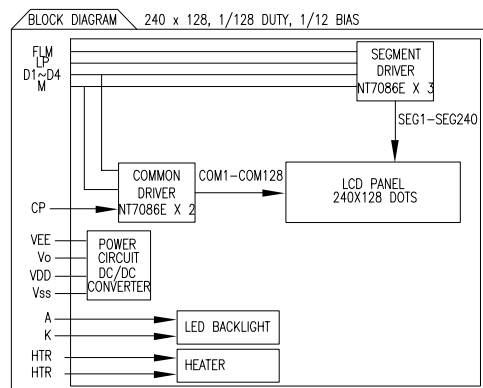




DATE: 04.01.10	DRAWN BY: JN
PAGE: 1 OF 2	CHKD BY: YA
SCALE: N/A	APRVD BY: BC
UNIT: mm [INCH]	(P6)



NOTES:

1. R1 IS THE CONTRAST RESISTOR.
2. VOUT=-10.0V
3. ADJUST R1 TO GET GOOD CONTRAST. TYP: V0 IS -13.0V.

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE MIN. MAX.	UNIT
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	$T_a=25^{\circ}\text{C}$	-0.3 7.0	V
SUPPLY VOLTAGE FOR LCD DRIVE	V_{LCD}	-	0 30	V
INPUT VOLTAGE	V_{IN}	$T_a=25^{\circ}\text{C}$	-0.3 $V_{DD}+0.3$	V
OPERATING TEMPERATURE	T_{opr}	W/ HEATER	-40 +85	$^{\circ}\text{C}$
STORAGE TEMPERATURE	T_{stg}	W/ HEATER	-40 +85	$^{\circ}\text{C}$

PIN CONFIGURATION

PIN NO.	SYMBOL	FUNCTION
1	FLM	FIRST LINE MAKER
2	M	CONTROL SIGNAL FOR AC DRIVING
3	LP	COMMON DRIVER DATA SHIFT SIGNAL
4	CP	CLOCK PULSE FOR SEGMENT SHIFT REGISTER
5	V_{DD}	POWER SUPPLY
6	V_{SS}	GROUND
7	V_{EE}	POWER SUPPLY VOLTAGE FOR LCD
8	D1_SID	DATA BIT INPUT/OUTPUT
9	D2_DL	
10	D3_DM	
11	D4_DR	
12	V_0	CONTRAST ADJUSTMENT VOLTAGE
13	LED+ (A)	ANODE OF LED
14	LED- (K)	CATHODE OF LED
15	HTR +	POWER SUPPLY FOR HEATER +12V
16	HTR -	POWER SUPPLY FOR HEATER GND

ELECTRICAL CHARACTERISTICS

 $V_{DD}=2.7\text{V to }5.5\text{V}, T_A=25^{\circ}\text{C}$

ITEM	SYMBOL	CONDITION	STANDARD VALUE MIN. TYP. MAX.	UNIT
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	-	2.7 5.0 5.5	V
SUPPLY VOLTAGE FOR LCD DRIVE	$V_{DD}-V_0$	$V_{DD}=5\text{V}$	6.0 18.0 28.0	V
SUPPLY CURRENT FOR LOGIC	I_{DD}	$V_{DD}=5\text{V}$	- 8.2 13.0	mA
LED BACKLIGHT	VOLTAGE	$I_f=60\text{mA}$	- 5.0 -	V
	CURRENT	-	- 60 80	mA
	POWER CONSUMPTION	-	- 192 -	mW
	LUMINOUS	-	- 150 -	cd/m ²
	COLOR COORDINATE	WHITE	.260 - .330	
HEATER	VOLTAGE	V_{FH}	- 12 -	V
	RESISTANCE	-	160 210 260	OHM
	CURRENT	I_{FH}	40 60 80	mA
	POWER	P_H	- 0.71 -	W

*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 MAX.= +0.00 -DECIMAL PRECISION



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240x128 GRAPHIC LCD MODULE, FSTN, W/ HEATER, TRANSFLECTIVE, WHITE LED BACKLIGHT, 6:00 VIEW, VLCD=18.0 V

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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UNCONTROLLED DOCUMENT
DATE: 04.01.10 DRAWN BY: JN
PAGE: 2 OF 2 CHKD BY: YA
SCALE: N/A APRVD BY: BC
UNIT: mm [INCH]

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