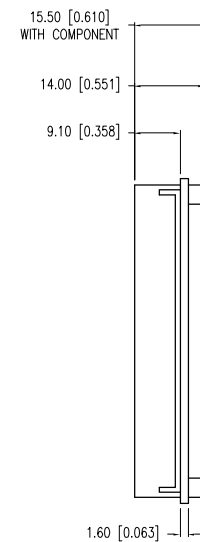
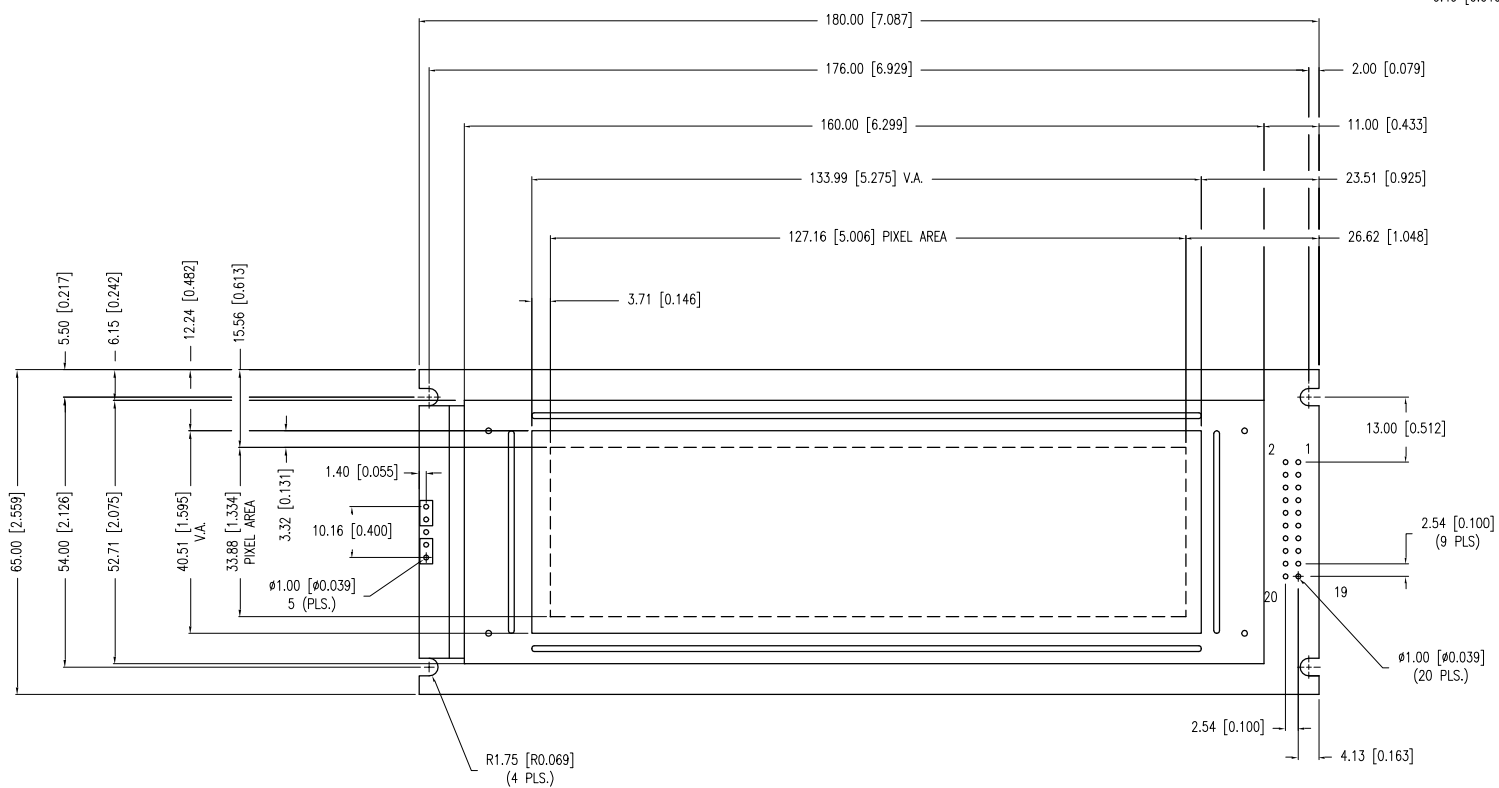
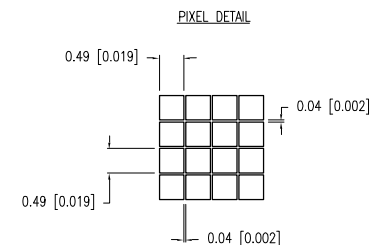
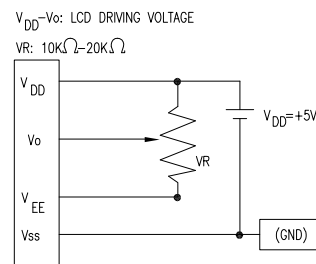


CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.



*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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240 x 64 DOT MATRIX GRAPHIC MOD., 1/64 DUTY, W/ NEGATIVE CHARGE PUMP, STN, TRANSFLECTIVE, LED BKL.T.

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

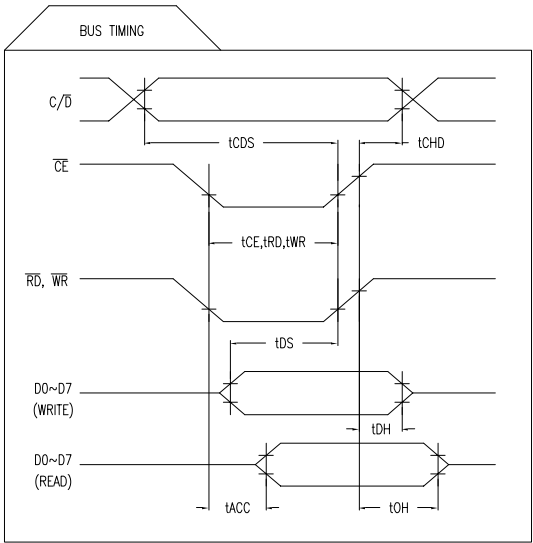
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UNCONTROLLED DOCUMENT
DATE: 06.01.10 DRAWN BY: JH
PAGE: 1 OF 2 CHKD BY: BC
SCALE: N/A APRVD BY: KF
UNIT: mm [INCH] (R)

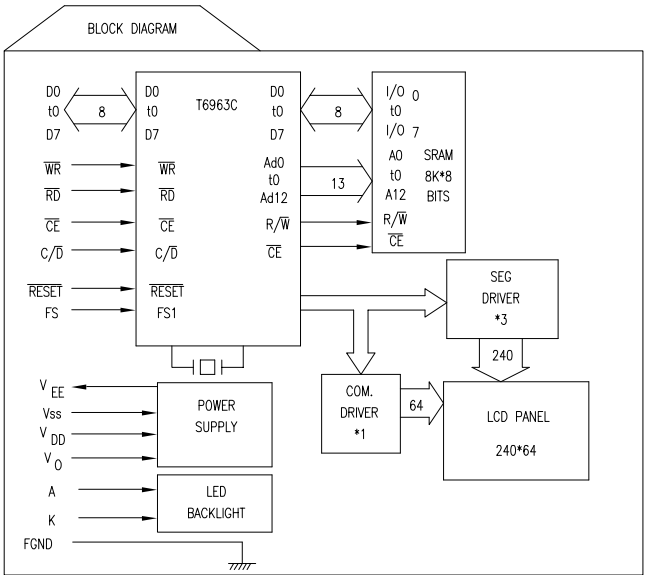
ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
POWER SUPPLY VOLTAGE FOR LOGIC	VDD	Ta=25°C	4.5	5.0	5.5	V
POWER SUPPLY CURRENT FOR LOGIC	IDD	VDD-VSS=5V	–	16.0	25.0	mA
INPUT VOLTAGE	VIH	HIGH LEVEL	2.2	–	VDD	V
INPUT VOLTAGE	VIL	LOW LEVEL	–	–	0.6	V
OUTPUT VOLTAGE	VOH	HIGH LEVEL	2.4	–	–	V
OUTPUT VOLTAGE	VOL	LOW LEVEL	–	–	0.4	V
POWER SUPPLY VOLTAGE FOR LCD DRIVE (0°C TO 50°C)	VDD-Vo	VDD=5V Ta=25°C	12.2	13.6	14.5	V
POWER SUPPLY VOLTAGE FOR LCD DRIVE (-20°C TO +70°C)	VDD-Vo	VDD=5V Ta=25°C	12.6	14.1	14.9	V
LED BACKLIGHT VOLTAGE	Vf	If= 690	–	4.2	4.6	V
LED BACKLIGHT INTENSITY	Iv	If= 690	120	180	–	cd/m ²
LED POWER DISSIPATION	PAD	If= 990	–	–	5	W

ELECTRIC MAXIMUM RATING						
ITEM	SYMBOL	MIN	TYP	MAX	UNIT	
POWER SUPPLY FOR LCD DRIVE	VDD-Vo	0	–	22.0	V	
POWER SUPPLY FOR LOGIC	VDD-VSS	0	–	7.0	V	
INPUT VOLTAGE	VI	VSS	–	VDD	V	

TIMING CHARACTERISTICS					
PARAMETER	SYMBOL	MIN	MAX	UNIT	
C/D SETUP TIME	tCDS	100	–	ns	
C/D HOLD TIME	tCDH	10	–	ns	
CE, RD, WR PULSE WIDTH	tCE, tRD, tWR	80	–	ns	
DATA SETUP TIME	tDS	80	–	ns	
DATA HOLD TIME	tDH	40	–	ns	
ACCESS TIME	tACC	–	150	ns	
OUTPUT HOLD TIME	tOH	10	50	ns	



PIN CONFIGURATION			
PIN #	SYMBOL	LEVEL	FUNCTION
1	FGND	–	FRAME GROUND (CONNECTED TO METAL BEZEL)
2	GND	0V	SIGNAL GROUND
3	V DD	+5V	POWER SUPPLY
4	Vo	–	CONTRAST ADJUSTMENT VOLTAGE
5	WR	L	DATA WRITE
6	RD	L	DATA READ
7	CE	L	CHIP ENABLE
8	C/D	H/L	WR="L", C/D="H": COMMAND WRITE C/D="L": DATA WRITE RD="L", C/D="H": COMMAND READ C/D="L": DATA READ
9	V EE	–15V	OUTPUT VOTAGE FOR LCD DRIVING
10	RESET	L	CONTROL RESET (MODULE RESET)
11~18	D0~D7	H/L	DATA BUS
19	FS	H/L	FONT SELECT "H": 6 x 8 PIXEL/FONT "L": 8 x 8 PIXEL/FONT
20	N/C	–	NO CONNECTION



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