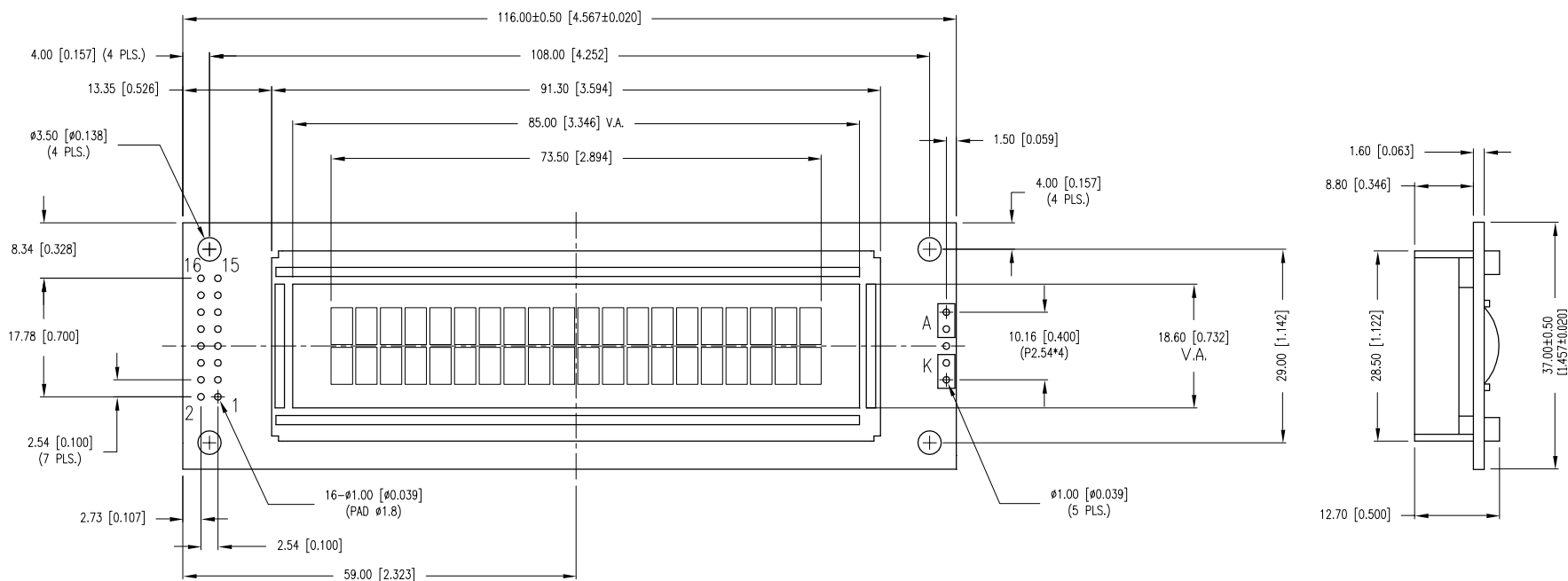
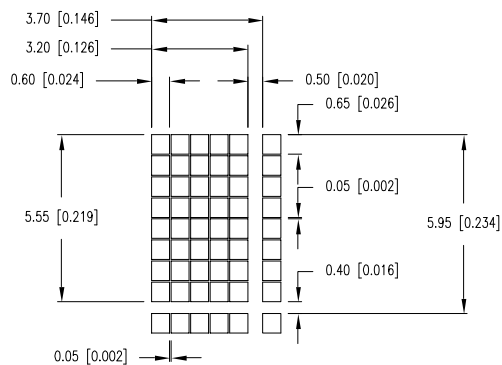


PRELIMINARY IN P/N DIR

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

CHARACTER DETAIL



*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 *UNCONTROLLED DOCUMENT*



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5.55mm CHARTR HT, 5x8 DOT MATRIX, 20x2 LCD MODULE, 1/16 DUTY, 1/5 BIAS, STN, TRANSMISSIVE, LED BKLT.

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

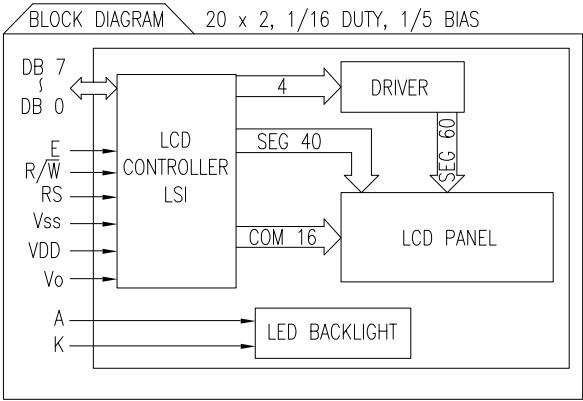
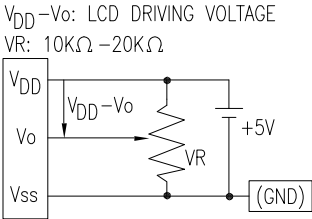
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DATE: 11.24.10	DRAWN BY: AB
PAGE: 1 OF 2	CHKD BY: --
SCALE:	APRVD BY: KF
UNIT: mm [INCH]	



PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	Vss	—	POWER SUPPLY	GND (0V)
2	VDD	—		5V
3	Vo	—		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.	
15	A	—	ANODE	LED BACKLIGHT
16	K	—	CATHODE	LED BACKLIGHT



ELECTRICAL CHARACTERISTICS						
VDD=4.7V to 5.3V, TA=25°C						
ITEM		SYMBOL	CONDITION	STANDARD VALUE		
				MIN.	TYP.	MAX.
SUPPLY VOLTAGE FOR LOGIC		VDD-Vss	—	—	5.0	—
SUPPLY CURRENT FOR LOGIC		IDD	VDD=5V	—	2.0	3.0
INPUT VOLTAGE	HIGH	VIH	—	2.2	—	VDD
	LOW	VIL	—	0	—	0.6
OUTPUT VOLTAGE	HIGH	VOH	—	2.4	—	V
	LOW	VOL	—	—	—	0.4
*LED BACKLIGHT	VOLTAGE	Vf	If=210mA	—	4.2	4.6
	CURRENT	If	—	—	210	—
	POWER CONSUMPTION	PD	—	—	882	—
	LUMINOUS	L	If=210mA	70	—	—
	COLOR	—	—	—	—	—

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-Vo	—	4.2@50°C	4.8@0°C	V
INPUT VOLTAGE	VI	Ta=25°C	Vss	VDD	V
OPERATING TEMPERATURE	Topr	—	0	50	°C
STORAGE TEMPERATURE	Tstg	—	-20	70	°C