THE DATASHEET OF

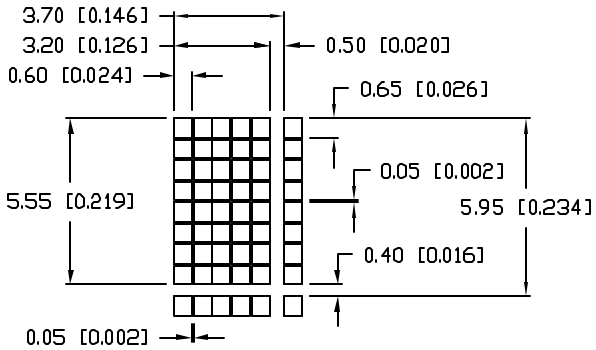
LCM-S02402DSF

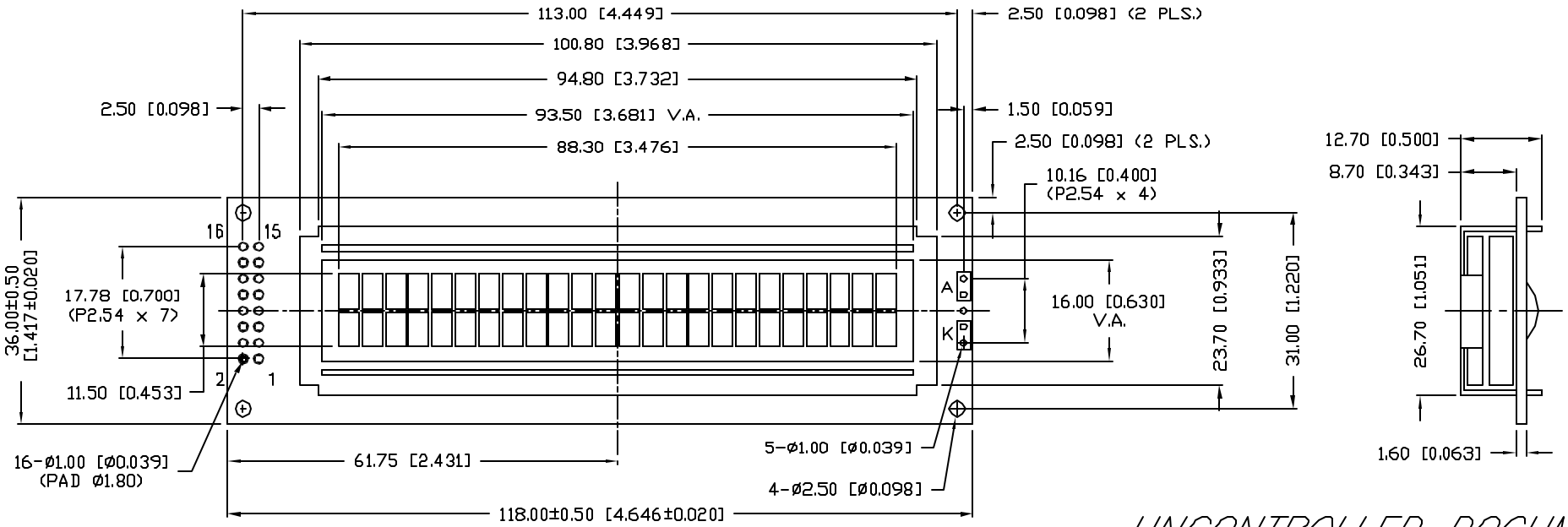
www.win-source.net 0086-755-83957316

UNCONTROLLED DOCUMENT

PART NUMBER	REV.
LCM-S02402DSF	

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





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REV.	PART NUMBER
	LCM-S02402DSF

5.55mm CHARACTER HEIGHT, 24 x 2 CHARACTER LCD,
5 x 8 DOT MATRIX, STN, TRANSFLECTIVE,
LED BACKLIGHT, 1/16 DUTY.

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RELIABILITY NOTE
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

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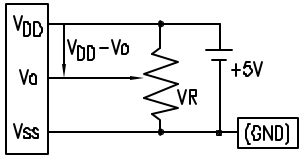
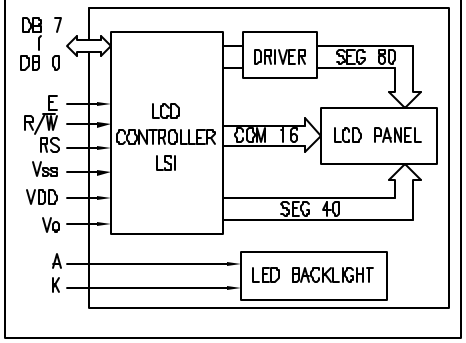
PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	Vss	-	POWER SUPPLY	GND (0V)
2	V_{DD}	-		5V
3	Vo	-		FOR LCD DRIVE
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
5	R/$\overline{W}$	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

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



BLOCK DIAGRAM 24 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 MIN.	TYP.	MAX.	UNIT
SUPPLY VOLTAGE FOR LOGIC		V_{DD}-Vss	-	-	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	Vf	If=160mA	-	4.2	4.5	V
	CURRENT	If	-	-	160	400	mA
	POWER CUNSUMPTION	PD	-	-	660	-	mW
	LUMINOUS	L	If=160mA	70	-	-	cd/m²
	COLOR	-	-	-	-	-	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE MIN	MAX	UNIT
SUPPLY VOLTAGE FOR LOGIC	V_{DD}-Vss	Ta=25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	V_{DD}-Vo	-	4.2@50°C	4.8@0°C	V
INPUT VOLTAGE	V_I	Ta=25°C	Vss	V_{DD}	V
OPERATING TEMPERATURE	Topr	LCM-S	0	50	°C
STORAGE TEMPERATURE	Tstg	LCM-S	-20	70	°C

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