PART NUMBER	LCM-S01601DSF/D		REV.	A
DATE	E.C.N. NUMBER AND REVISION COMMENTS			REV.
07.25.12	E.C.N. #10BRDR. & REDRAWN.			A

CHARACTER DETAIL

6.00 [0.236]

4.84 [0.191]

1.16 [0.046]

0.92 [0.036]

9.70 [0.382]

0.06 [0.002]

1.16 [0.046]

0.06 [0.002]

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

122.00±0.50 [4.803±0.020]

15.98 [0.629]

33.02 [1.300]

14-Ø1.00 [Ø0.039]
(PAD Ø1.8)

3.50 [0.138]

2.54 [0.100]
(13 PLS.)

2.00 [0.079]

Ø3.50 [Ø0.138]
(4 PLS.)

13.60 [0.535]

9.60 [0.378]

1

14

25.00 [0.984]

23.20 [0.913]

33.00±0.50
[1.299±0.020]

A

K

17.00 [0.669]

4.50 [0.177]

13.00 [0.512]
V.A.

9.70 [0.382]

94.84 [3.734]

99.00 [3.898] V.A.

105.20 [4.142]

1.60 [0.063]

3.50 [0.138]
(2 PLS.)

115.00 [4.528]

UNCONTROLLED DOCUMENT

LUMEX
Creating LED and LCD Solutions Together™

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MEMBER OF *ITW* PHOTONICS GROUP

9.70mm CHAR. HGT, 5x8 DOT MATRIX, STN TRANSFLECTIVE, 16x1 CHAR LCD MODULE, 1/16 DUTY, 1/5 BIAS.

DATE:	07.25.12	DRAWN BY:	AB
PAGE:	1 OF 2	CHKD BY:	JD
SCALE:	NTS	APRVD BY:	JD
UNIT:	mm [INCH]		

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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   16 x 1, 1/16 DUTY, 1/5 BIAS
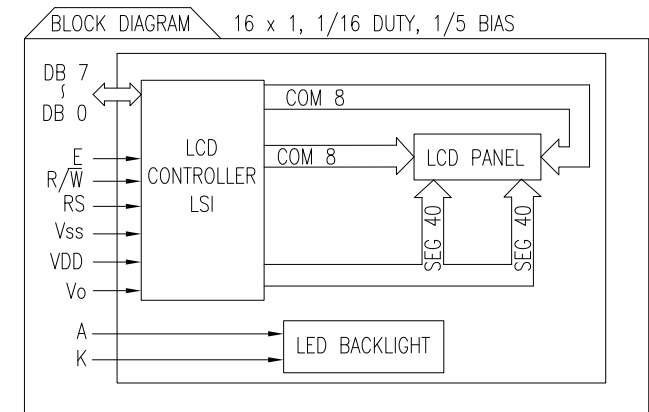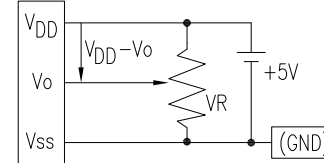
ELECTRICAL CHARACTERISTICS V_{DD}=4.7V to 5.3V, T_A=25°C

ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT
				MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC		V_{DD}–Vss	–	–	5.0	–	V
SUPPLY CURRENT FOR LOGIC		I_{DD}	V_{DD}=5V	–	1.6	2.5	mA
INPUT VOLTAGE	HIGH	V_{IH}	–	2.2	–	V_{DD}	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=150mA	–	4.2	4.6	V
	CURRENT	If	–	–	150	200	mA
	POWER CUNSUMPTION	PD	–	–	630	–	mW
	LUMINOUS	L	If=150mA	70	–	–	cd/m^2
	COLOR	–	–	–	–	–	nm

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
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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