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[Lumex, Inc.](#)
[LCM-S01601DSF](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

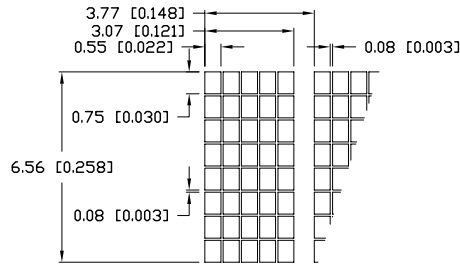
UNCONTROLLED DOCUMENT

PART NUMBER

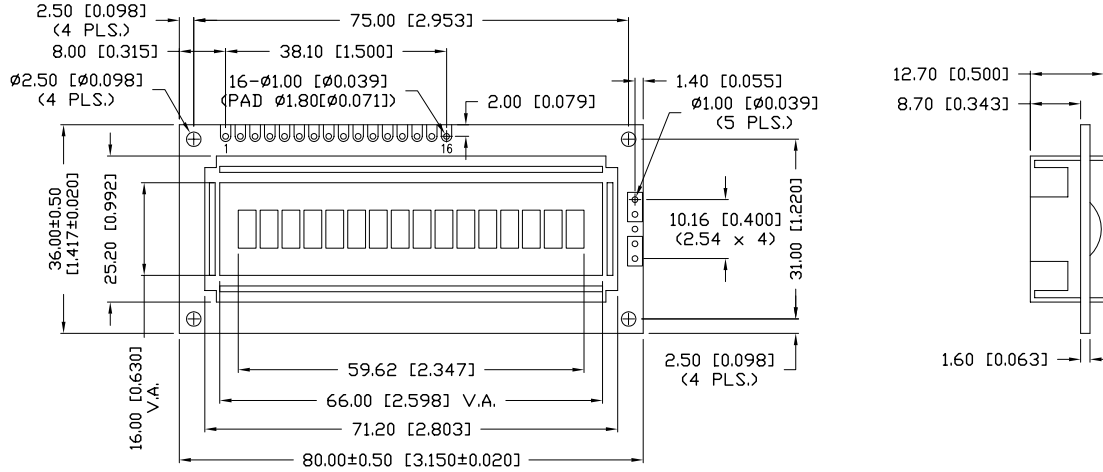
REV.

LCM-S01601DSF

CHARACTER DETAIL



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



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*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

REV.	PART NUMBER LCM-S01601DSF	CONFIDENTIAL INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES. 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.	LUMEX Creating LED and LCD Solutions Together™ 290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 US WEB: www.lumex.com TW WEB: www.lumex.com.tw
	6.56mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 16 x 1 LCD MODULE, 1/16 DUTY, 1/5 BIAS. STN, TRANSFLECTIVE, WITH LED BACKLIGHT	DRAWN BY: CB CHECKED BY: JD APPROVED BY: JD DATE: 5.2.02 PAGE: 1 OF 2 SCALE: N/A	

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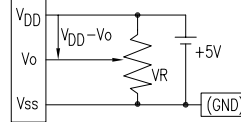
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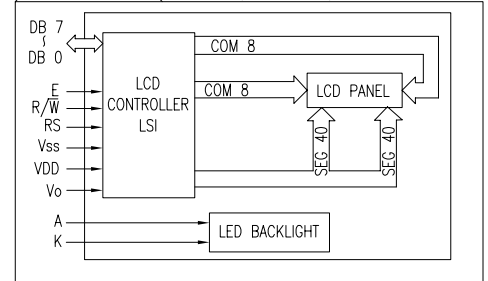
PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	Vss	-	POWER SUPPLY
2	VDD	-	
3	Vo	-	
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
16	K	-	CATHODE

VDD-Vo: LCD DRIVING VOLTAGE
VR: 10KΩ-20KΩ



BLOCK DIAGRAM 16 x 1, 1/16 DUTY, 1/5 BIAS



ELECTRICAL CHARACTERISTICS

VDD=4.7V to 5.3V, TA=25°C

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	-	-	5.0	-	V
SUPPLY CURRENT FOR LOGIC	IDD	VDD=5V	-	1.6	2.5	mA
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=150mA	-	4.2	4.6
	CURRENT	If	-	-	150	200
	POWER CONSUMPTION	PD	-	-	630	-
	LUMINOUS	L	If=150mA	70	-	cd/m ²
	COLOR	-	-	-	-	nm

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	LCM-S	0	50	°C
STORAGE TEMPERATURE	Tstg	LCM-S	-20	70	°C

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RELIABILITY NOTE
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