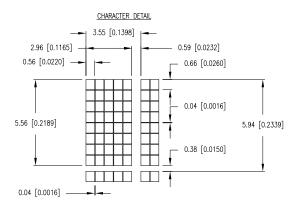
UNCONTROLLED DOCUMENT

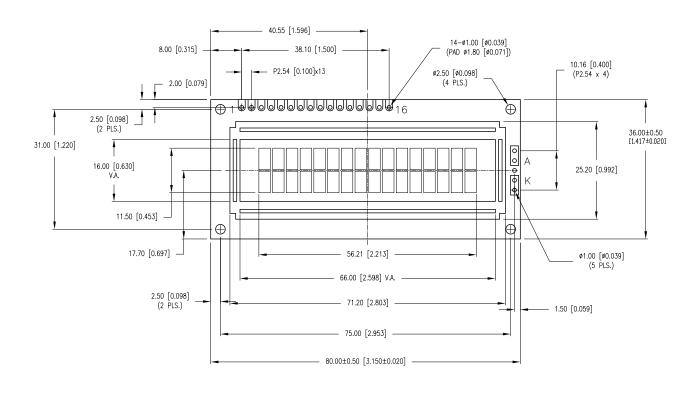
PART NUMBER	LCM-S01602DSR/A	REV.	Α
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
03.02.11	E.C.N. #10BRDR. & REDRAWN.		Α

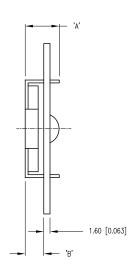


CAUTION: STATIC SENSITIVE DEVICE FOLLOW PROPER E.S.D. HANDLING PROCEDURES WHEN WORKING WITH THIS PART.

P/N PREFIX/SUFFIX TABLE											
LCM	-X	DXX	DESCRIPTION								
STANDARD	S	SR	STN, REFLECTIVE								
STANDARD	2	3	3	3	3	J	3	3	3	SF	STN, TRANSFLECTIVE(W/ BACKLIGHT)
HIGH TEMP.		TR	TN, REFLECTIVE								
HIGH TEMP.	п	TF	TN, TRANSFLECTIVE(W/ BACKLIGHT)								

TYPE	DIM.	Α	В	
WITH	BACKLIGHT	12.7	8.7	
NO B	ACKLIGHT	8.8	4.8	





\*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=  $^{+DECIMAL}_{-0.00}$  PRECISION MAX.=  $^{+0.00}_{-0.00}$  MAX.=  $^{+0.00}_{-0.00}$  PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN=  $^{+DECIMAL}_{-0.00}$  PRECISION MAX.=  $^{+0.00}_{-0.00}$  PRECISION MAX.=  $^{+0.00}_{-0.00}$ 



290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 FAX: +1.847.359.6538 WEB: WWW.LUMEX.COM MEMBER OF ITW PHOTONICS GROUP 5.56mm CHARACTER HEIGHT, 5x8 DOT MATRIX,

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

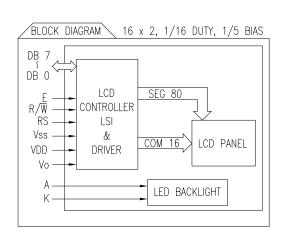
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	UNCONTROLLED DOCUMENT						
	DATE:	03	3.02.	11	DRAWN BY:	AB	
_	PAGE:	1	OF	2	CHKD BY:	SS	
	SCALE:		NTS		APRVD BY:	KF	
	UNIT: mm [INCH]			CH]	(A)		

PART NUMBER	LCM-S01602DSR/A	REV.	А
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
03.02.11	E.C.N. #10BRDR. & REDRAWN.		Α

PIN	CONFIGURA	ATION \					
PIN NO.	SYMBOL	LEVEL	FUNCTION				
1	Vss	_		GND (OV)			
2	$V_{\mathrm{DD}}$	_	POWER SUPPLY	5V			
3	Vo	_		FOR LCD DRIVE			
			REGISTER SELECT SIG	NAL			
4	RS	H/L	H: DATA INPUT L: INSTRUCTION INPUT				
5	D/W	R/W	H/L	H: DATA READ (MODU	LE>MPU)		
	11/ W	П/С	L: DATA WRITE (MODU	JLE <mpu)< td=""></mpu)<>			
6	E	H,H->L	ENABLE				
7~14	DB0~DB7	H/L	DATA BUS-SOFTWARE SELECTABLE 4 OR 8 BIT MODE.				
15	А	_	ANODE	LED BACKLIGHT			
16	K	_	CATHODE	LED BACKLIGHT			

00	-Vo: LCD DRIVING VOLTAGE $10 \mathrm{K}\Omega - 20 \mathrm{K}\Omega$
$V_{DD}$	V <sub>DD</sub> -Vo
Vo	VR T+5V
Vss	(GND)



ELECTRICAL CHARACTERISTICS $V_{DD}$ =4.7V to 5.3V, T <sub>A</sub> =25°C								
ITEM			CVMDOI	CONDITION	STANDARD VALUE			UNIT
ITEM			SYMBOL		MIN.	TYP.	MAX.	UNII
SUPPLY VO	LTAGE FOR	LOGIC	V <sub>DD</sub> -Vss	_	-	5.0	-	٧
SUPPLY CL	IRRENT FOR	LOGIC	l <sub>DD</sub>	$V_{DD}=5V$	-	2.0	3.0	mΑ
	INPUT VOLTAGE HIGH LOW		٧ <sub>IH</sub>	_	2.2	-	V DD	٧
INPUT VOLT			V <sub>IL</sub>	_	0	-	0.6	٧
		HIGH	V <sub>OH</sub>	_	2.4	-	-	٧
OUTPUT VO	LTAGE	LOW	V <sub>OL</sub>	-	-	-	0.4	٧
	VOLTAGE		Vf	lf=160mA	-	4.2	4.6	٧
*LED	CURRENT POWER CUNSUMPTION		lf	-	-	160	-	mΑ
BACKLIGHT			PD	-	-	656	_	mW
DACKLIGHT	LUMINOUS		L	lf=160mA	70	_	_	cd/m <sup>2</sup>
	COLOR		_	_	-	-	-	nm

\*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS								
ITEM	SYMBOL	TEST	STANDARD VALUE		UNIT			
TIEW	21MBOL	CONDITION	MIN	MAX	UNII			
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	٧ <sub>I</sub>	Ta=25°C	Vss	V DD	V			
OPERATING TEMPERATURE	Topr	LCM-S	0	50	.C			
OPERATING TEMPERATURE		LCM-H	-20	70	.C			
STORAGE TEMPERATURE	Tota	LCM-S	-20	70	.C			
STORAGE TEMPERATURE	Tstg	LCM-H	-30	85	.C			

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