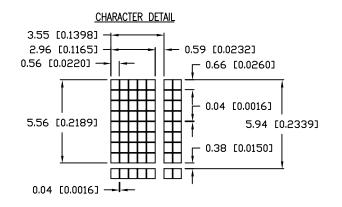
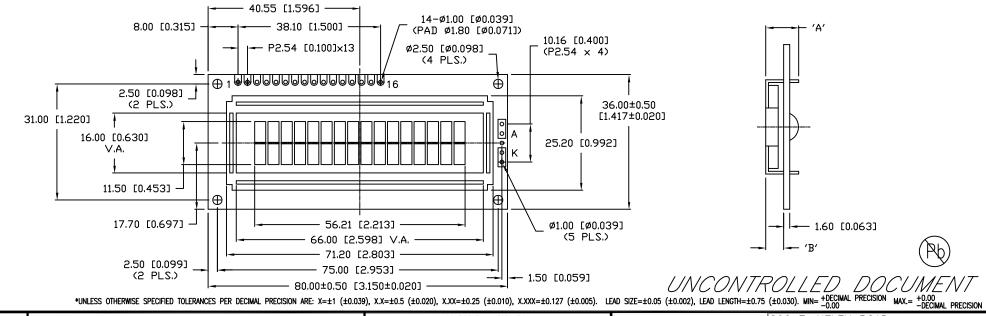
## LCM-S01602DSR/A

			P/N F	PREFIX/SUFFIX TABLE
	LCM-X		DXX	DESCRIPTION
	STANDARD	s	SR	STN, REFLECTIVE
			SF	STN, TRANSFLECTIVE(W/ BACKLIGHT)
	HIGH TEMP.	Н	TR	TN, REFLECTIVE
-			TF	TN, TRANSFLECTIVE(W/ BACKLIGHT)

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



TYPE	DIM.	Α	В
WITH BACK	KLIGHT	12.7	8.7
NO BACKL	IGHT	8.8	4.8



REV. PART NUMBER LCM-S01602DSR/A

> 5.56mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 16 x 2 LCD MODULE, 1/16 DUTY, 1/5 BIAS.

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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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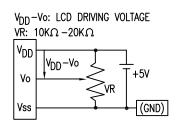
CHECKED BY: APPROVED BY: DATE: 03.07.08

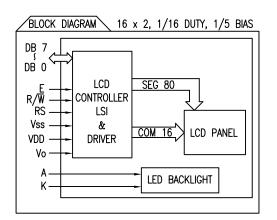
PAGE: 1 OF 2 SCALE: N/A

### LCM-S01602DSR/A

#### PIN CONFIGURATION

PIN NO. SYMBOL LEVEL FUNCTION							
SYMBOL	LEVEL	FUNCTION					
Vss	-	GND (OV)					
$V_{DD}$	-	POWER SUPPLY	5V				
Vo	ı	FOR LCD DRIVE					
		REGISTER SELECT SIGNAL					
RS	H/L	H: DATA INPUT					
		L: INSTRUCTION INPUT					
R/W	H/L	H: DATA READ (MODULE>MPU)					
		L: DATA WRITE (MODULE <mpu)< td=""></mpu)<>					
Е	H,H->L	ENABLE					
DB0~DB7	H/L	DATA BUS-SOFTWARE	SELECTABLE 4 OR 8 BIT MODE.				
Α	1	ANODE	LED BACKLIGHT				
K	1	CATHODE	LED BACKLIGHT				
	Vss VDD Vo  RS  R/W  E DB0~DB7	Vss — VDD — Vo —  RS H/L  R/W H/L  E H,H->L  DB0~DB7 H/L  A —	Vss — VDD — Vo —  RS H/L H: DATA INPUT L: INSTRUCTION INPUT L: DATA WRITE (MODU E H,H—>L ENABLE DB0~DB7 H/L DATA BUS—SOFTWARE A — ANODE				





<i>'</i>	`	\	
ELECTRICAL	CHARACTERISTICS		١

<sub>DD</sub> =4.7V to 5.3V, T <sub>A</sub> =25°C	$I_{DD} = 4.7V$	to	5.3V,	$T_{A} = 25^{\circ}C$
---	-----------------	----	-------	-----------------------

	OF TE OF THE TOTAL TOTAL OF THE		100 1171 to 0.01, 1A 200						
ITEM			SYMBOL	CONDITION	STANDARD VALUE			UNIT	
IILM				CONDITION	MIN.	TYP.	MAX.	UNII	
SUPPLY VOLTAGE FOR LOGIC			V <sub>DD</sub> -Vss	ı	•	5.0	-	٧	
SUPPLY CURRENT FOR LOGIC			I <sub>DD</sub>	V <sub>DD</sub> =5V	ı	2.0	3.0	mA	
INPUT VOLTAGE HIGH LOW		HIGH	٧ <sub>H</sub>	ı	2.2	-	۷DD	٧	
		LOW	۷ <sub>IL</sub>	1	0	_	0.6	٧	
	HIGH		V <sub>OH</sub>	ı	2.4	-	-	٧	
OUTPUT VO	LTAGE	LOW	$V_{OL}$	-	-	-	0.4	٧	
	VOLTAGE		Vf	lf=160mA	ı	4.2	4.6	٧	
*LED	CURRENT		lf	1	ı	160	-	mΑ	
BACKLIGHT	POWER CUNSUMPTION LUMINOUS		PD	-	-	656	-	mW	
DACKLIGHT			L	lf=160mA	70	_	_	cd/m <sup>2</sup>	
	COLOR		_	_	_	_	_	nm	

\*ONLY APPLIES TO MODULES WITH BACKLIGHT

REV.

#### ABSOLUTE MAXIMUM RATINGS

/	\				
ITEM	SYMBOL	TEST	STANDAR	D VALUE	UNIT
IIEM	SIMDOL	CONDITION	MIN	MAX	UNII
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	4.7	5.3	٧
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-Vo	-	4.2@50°C	4.8@0°C	٧
INPUT VOLTAGE	٧١	Ta=25°C	Vss	V <sub>DD</sub>	٧
OPERATING TEMPERATURE	Tons	LCM-S	0	50	.c
OPERATING TEMPERATURE	Topr	LCM-H	-20	70	ċ
STORAGE TEMPERATURE	Taka	LCM-S	-20	70	ċ
STORAGE TEMPERATURE	Tstg	LCM-H	-30	85	ဂံ



# \*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL 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 PRECISION MAX.= +0.00 -DECIMAL PRECISION MAX.= +0.00 -DECI

PART NUMBER LCM-S01602DSR/A

5.56mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 16 x 2 LCD MODULE, 1/16 DUTY, 1/5 BIAS.

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