

PART NUMBER
LCM-S01602DSF/I-Y

REV.

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REV. E.C.N. NUMBER AND REVISION COMMENTS

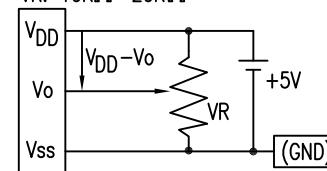
DATE

SEE PAGE #1./

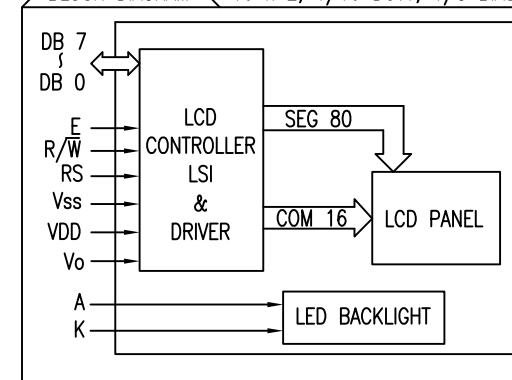
PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	Vss	—	POWER SUPPLY	GND (0V)
2	VDD	—		5V
3	Vo	—		FOR LCD DRIVE
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	LED BACKLIGHT
16	K	—	CATHODE	LED BACKLIGHT

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



BLOCK DIAGRAM 16 x 2, 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	—	2.0	3.0	mA
INPUT VOLTAGE	HIGH LOW	VIH	—	2.2	—	4.7
		VIL	—	0	—	0.6
OUTPUT VOLTAGE	HIGH LOW	VOH	—	2.4	—	—
		VOL	—	—	—	0.4
*LED BACKLIGHT	VOLTAGE	Vf	If=160mA	—	4.2	4.5
	CURRENT	If	—	—	160	400
	POWER CONSUMPTION	PD	—	—	660	—
	LUMINOUS	L	If=160mA	70	—	—
	COLOR	—	—	—	—	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
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
		LCM-H	-20	70	°C
		LCM-S	-20	70	°C
STORAGE TEMPERATURE	Tstg	LCM-H	-30	85	°C

*UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±0.25mm (±0.010")

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PART NUMBER

— LCM-S01602DSF/I-Y

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

CONFIDENTIAL INFORMATION

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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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SCALE: N/A

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