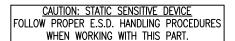
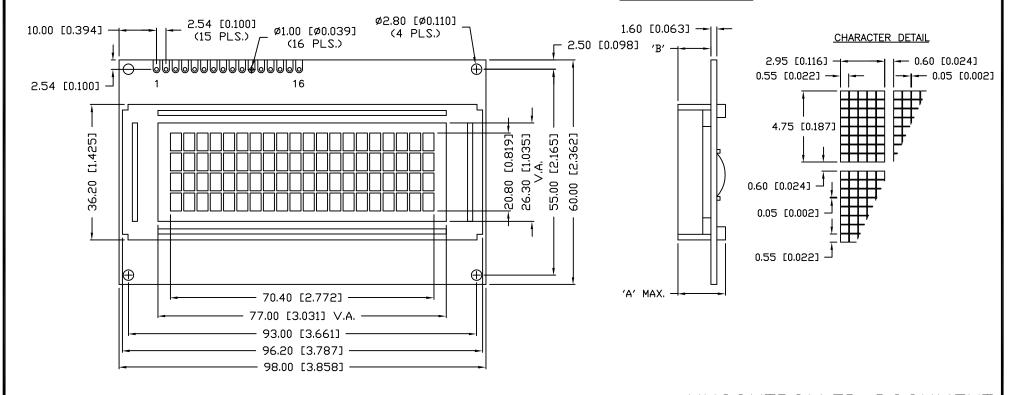
REV.

1CM-S02004DSN-W



TYPE DIM	. А	В
WITH BACKLIGHT	12.7	8.7
NO BACKLIGHT	8.8	4.8



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN=+DECIMAL PRECISION MAX.= +0.00 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN=+DECIMAL PRECISION MAX.= +0.00 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.001), X.XX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.001), X.XX=±0.05 (

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LCM-S02004DSN-W

PART NUMBER

REV.

4.75mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 20 x 4, LCD MODULE, 1/16 DUTY, 1/5 BIAS, STN BLUE, NEGATIVE IMAGE, WHITE LED BACKLIGHT.

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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.

DRAWN BY:

CT

CHECKED BY: APPROVED BY: DATE: 12.4.03 PAGE: 1 OF 2 SCALE: N/A

LCM-S02004DSN-W

-		i v,							
•	1	Vss	_						
N	Ю.	NO. SYMBOL	LEVEL	FUNCTION					
_	PIN			CONFIGURATION					

E H,H->L ENABLE

DB0~DB7 H/L DATA BUS-SOFTWARE SELECTABLE 4 OR 8 BIT MODE.

A 3.4V ANODE LED BACKLIGHT

K GND CATHODE LED BACKLIGHT

ELECTRICAL CHARACTERISTICS

6

7~14

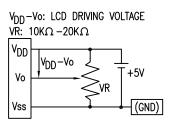
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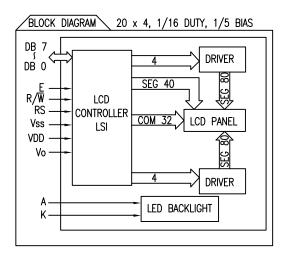
16

V_{DD}=4.7V to 5.3V, T_A=25°C

/			טט					
ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT	
				MIN.	TYP.	MAX.	UNII	
SUPPLY VOLTAGE FOR LOGIC		V _{DD} -Vss	ı	-	5.0	-	٧	
SUPPLY CURRENT FOR LOGIC		DD	V _{DD} =5V	-	3.0	4.0	mA	
INPUT VOLTAGE HIGH LOW		٧ _{IH}	1	2.2	-	۷DD	٧	
		LOW	٧٦	1	0	-	0.6	٧
OUTPUT VOLTAGE HIGH LOW		ν _O H	I _{OH} =-0.205mA	2.4	-	-	٧	
		LOW	V_{OL}	I _{OL} =1.6ma	-	-	0.4	٧
*LED BACKLIGHT	VOLTAGE		Vf	lf=20mA	-	3.4	3.5	٧
	CURRENT		lf	1	-	20	30	mA
	POWER CUNSUMPTION		PD	1	-	68	105	mW
	LUMINOUS		L	lf=20mA	30	35	_	cd/m ²
	COLOR		WHITE	-	-	-	-	nm

^{*}ONLY APPLIES TO MODULES WITH BACKLIGHT





ABSOLUTE MAXIMUM RATINGS

	7					
ITEM	SYMBOL	TEST	STANDAR	UNIT		
ITEM	SIMBUL	CONDITION	MIN	MAX	ONIT	
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25*C	-0.3	7	٧	
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-Vo	-	-0.3	12	٧	
INPUT VOLTAGE	٧١	Ta=25°C	Vss	V _{DD}	٧	
OPERATING TEMPERATURE	Tone	LCM-S	0	50	•C	
OPERATING TEMPERATURE	Topr	LCM-H	-20	70	.c	
STORAGE TEMPERATURE	Tstg	LCM-S	-20	70	.C	
STORAGE TEMPERATURE		LCM-H	-30	85	.C	

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