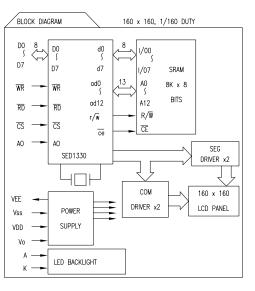


REV.



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

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: $X=\pm 1$ (±0.039), $X.XX=\pm 0.5$ (±0.020), $X.XX=\pm 0.127$ (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= ± 0.00 ± 0.000 MAX.= ± 0.00 ± 0.000 MAX.= ± 0.00 ± 0.000 MAX.= ± 0.000 ± 0.000 MAX.= ± 0.000 ± 0.000 MAX.= ± 0.000 ± 0.000 MAX.= ± 0.0000 MAX.= ± 0.0000 MAX.= \pm



290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 FAX: +1.847.359.6538 WEB: WWW.LUMEX.COM 160 x 160 DOT MATRIX GRAPHIC MODULE, 1/160 DUTY, STN WITH NEGATIVE CHARGE PUMP.

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

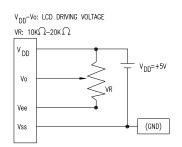
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DATE:	06.01.10	DRAWN BY:	JH
PAGE:	1 OF 2	CHKD BY:	вс
SCALE:	N/A	APRVD BY:	SA
UNIT:	mm [INCH]	(Pb)	

PIN C	ONFIGURATION					
PIN NO.	SYMBOL	LEVEL	FUNCTION			
1	Vss	0V	GND			
2	v _{DD}	5V	SUPPLY VOLTAGE FOR LOGIC			
3	Vo	-	CONTRAST VOLTAGE FOR LCD DRIVE(VARIABLE)			
4	RD	L	READ SIGNAL			
5	WR	L	WRITE SIGNAL			
6	CS	L	CHIP SELECT			
7	AO	H/L	DATA TYPE SELECT DATA BUS RESET SIGNAL (NOTE 1)			
8~15	DBO~DB7	H/L				
16	RES	L				
17	VEE	-	POWER SUPPLY VOLTAGE FOR LCD			
18	А	4.2V	ANODE	LED BACKLIGHT		
19	К	-	CATHODE	LED BACKLIGHT		
20	(N/C)	_	NO CONNECTION			

NOTES:

1. RES IS A SCHMITT TRIGGER INPUT. THE PULSEWIDTH ON RES MUST BE AT LEAST 200 us. PULSES OF MORE THAN A FEW SECONDS WILL CAUSE DC VOLTAGES TO BE APPLIED TO THE LCD PANEL.



ELECTRICAL (CHARACTERISTICS		V _{DD} =4.	75V to 5.25V, T _A =25°C				
ITCH.			OVALDOL	OCHRITION	STANDARD VALUE			
ITEM			SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
SUPPLY VOLTAGE	SUPPLY VOLTAGE FOR LOGIC			-	4.75	5.0	5.25	٧
SUPPLY VOLTAGE FOR LCD DRIVE			V _{DD} -VEE	-	-	18.2	-	٧
SUPPLY CURREN	SUPPLY CURRENT FOR LOGIC			-	-	-	20	mA
		HIGH	v _{IH}	=	0.2	-	V DD	٧
INPUT VOLTAGE		LOW	V IL	-	0	1	0.8	٧
		HIGH	V OH	I _{OH} =-3.0mA	2.4	-	-	٧
OUTPUT VOLTAGE		LOW	V OL	$I_{OL} = 3.0 \text{mA}$	-	-	0.4	٧
	VOLTAGE		Vf	If=560mA	-	4.2	4.5	٧
150	CURRENT		If	=	-	560	-	mA
LED	POWER CUNSUM	IPTION	PD	-	-	2.8	-	w
BACKLIGHT	LUMINOUS		L	If=560mA	60	-	-	cd/m ²
	COLOR		-	-	-	570	-	nm

ABSOLUTE MAXIMUM RATINGS	\				
	SYMBOL	TEST	STANDARD VALUE		
ITEM		CONDITION	MIN	MAX	UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -Vss	Ta=25°C	0	7.0	٧
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -VEE	-	17.2 @ 40°C	19.2 @ 0°C	٧
INPUT VOLTAGE	v ₁	Ta=25*C	Vss	V _{DD}	٧
OPERATING TEMPERATURE	Topr	LCM-H	-20	70	•c
STORAGE TEMPERATURE	Tstg	LCM-H	-30	85	*c

*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= $^{+DECIMAL}_{-DECIMAL}$ PRECISION UNCONTROLLED DOCUMENT



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