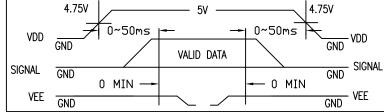


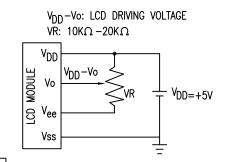
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ABSOLUTE MAXIMUM RATINGS							
SYMBOL	MIN.	MAX.	UNIT				
V _{DD} -Vss	0	6.5	۷				
V _{DD} -V _{EE}	0	22.0	V				
۷I	Vss	V _{DD}	V				
		100	V				
	V _{DD} -Vss	V _{DD} -Vss 0 V _{DD} -V _{EE} 0	V _{DD} -Vss 0 6.5 V _{DD} -V _{EE} 0 22.0 V _I Vss V _{DD}				

TIMING OF POWER SUPPLY AND INTERFACE SIGNAL



PIN CONFIGURATION					
PIN #	SYMBOL	LEVEL	FUNCTION		
1	Vss	-	GROUND (OV)		
2	V _{DD}	-	POWER SUPPLY FOR LOGIC CIRCUIT		
3	Vo	1	OPERATING VOLTAGE FOR LCD DRIVING		
4	C/D	H/L	WR="L", C/D="H": COMMAND WRITE, "L": DATA WRITE		
4		п/с	\overline{RD} ="L", C/ \overline{D} ="H": STATUS READ, "L": DATA READ		
5	RD	L	DATA READ		
6	WR	L	DATA WRITE		
7~14	DB0~DB7	H/L	DATA BUS LINE		
15	CE	L	CHIP ENABLE		
16	RST	L	RESET		
17	Vee	I	POWER SUPPLY FOR LCD DRIVING		
18	MD2	H/L	COLUMNS SELECT: "H": 32 COLUMNS, "L": 40 COLUMNS		
19	FS	H/L	FONT SELECT: "H": 6*8 PIXEL/FONT, "L": 8*8 PIXEL/FONT		
20	N.C.	-			
	Α	-	POWER SUPPLY FOR LED BACKLIGHT (ANODE)		
	K	-	POWER SUPPLY FOR LED BACKLIGHT (CATHODE)		



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PART NUMBER

REV.

OPTO-ELECTRICAL CHARACTERISTICS

	ITEM POWER SUPPLY VOLTAGE FOR LOGIC			SYMBOL	STANDARD VALUE			UNIT	
				STWDUL	MIN.	TYP.	MAX.	UNIT	
				V _{DD} -Vss	+4.75	+5.0	+5.25	٧	
	NEGATIVE P	V _{EE} -Vss	-15.5	-16.0	-16.5	٧			
		ACE NOTE (1)	H LEVEL	VIH	2.2	-	-	٧	
	INPUT VULI	AGE: NOTE (1)	L LEVEL	VIL	0	-	0.8	٧	
		TACE, NOTE (2)	H LEVEL	V _{OH}	2.4	-	VDD	٧	
		LTAGE: NOTE (2)	L LEVEL	VOL	0	-	0.4	٧	
	POWER SUF	PPLY CURRENT FOR LOGIC:	NOTE (4)	IDD	-	12.0	-	mA	
	POWER SUF	PPLY CURRENT FOR LCD DRIVE:	IEE	-	5.0	-	mA		
	RECOMMENI	DED	Ta=0°C	V _{DD} -Vo	-	+19.4	-	٧	
	LCD DRIVIN	G	Ta=25°C	<u></u> Φ=10°C	-	+18.5	-	٧	
	VOLTAGE: (NOTE 3)	Ta=50°C	0 =0°C	-	+16.2	-	٧	
	CLOCK OSC	CILLATION FREQUENCY	fosc	-	5	-	MHZ		
L 5	*LED BACKLIGHT	VOLTAGE	lf=160mA	Vf	-	3.4	3.6	٧	
		CURRENT	-	lf	-	160	-	mA	
		POWER CUNSUMPTION	-	PD	-	720	-	mW	
		BACKLIGHT SURFACE	lf=160mA	L	160	200	-	cd/m²	
		COLOR (X=0.31,Y=0.32)	-	-	-	550	-	nm	

***ONLY APPLIES TO MODULES WITH BACKLIGHT**

NOTE (1): APPLIED TO TERMINALS: FS, CE, WR, RD, C/D, DB0~DB7, RES, MD2.

NOTE (2): APPLIED TO TERMINALS: DB0~DB7.

NOTE (3): RECOMMENDED LCD DRIVING VOLTAGE MAY FLUCTUATE

ABOUT ±1.0V BY EACH MODULE.

NOTE (4): V_{DD}-Vss=5.0V, V_{DD}-V0=20.6V.



*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.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 ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), 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

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2	240 x 128 DOT MATRIX GRAPHIC MODULE, STN BLUE, NEGATIVE IMAGE, TRANMISIVE, WHITE LED BACKLIGHT, HIGH OPERATING TEMP, 1/128 DUTY, 12:00 VIEW.	IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES. <u>RELIABILITY NOTE</u> 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.			TE: 1.17.06 GE: 2 OF 2 ALE: N/A

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