

UNCONTROLLED DOCUMENT

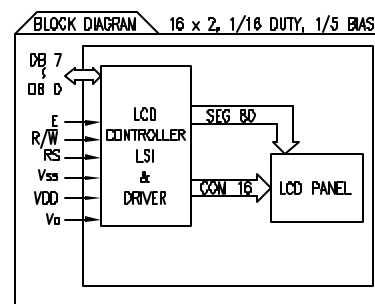
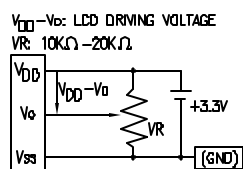
PART NUMBER

REV.

LCM-S01602DTR/M-3V

PRELIMINARY IN P/N DIR

PIN CONFIGURATION			
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V _{SS}	-	POWER SUPPLY GND (DV) 3.3V FOR LCD DRIVE
2	V _{DD}	-	
3	V _O	-	
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	-	-	
16	-	-	



ELECTRICAL CHARACTERISTICS		V _{DD} =3.3V T _A =25°C				
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	-	MIN.	TYP.	MAX.	V
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =3.3V	-	0.5	1.0	mA
INPUT VOLTAGE	HIGH	V _{IH}	-	0.7V _{DD}	V _{DD}	V
	LOW	V _{IL}	-	-	0.2V _{DD}	V
OUTPUT VOLTAGE	HIGH	V _{OH}	-	0.75V _{DD}	-	V
	LOW	V _{OL}	-	-	0.2V _{DD}	V

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	MIN	MAX
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	-	2.5@25°C	2.8@50°C
INPUT VOLTAGE	V _I	T _a =25°C	V _{SS}	V _{DD}
OPERATING TEMPERATURE	T _{opr}	LCM-S	0	50
		LCM-H	-20	70
STORAGE TEMPERATURE	T _{stg}	LCM-S	-20	70
		LCM-H	-30	85

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UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=.31 (±0.039), XX=.03 (±0.020), XXX=.015 (±0.010), XXXX=.0127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN. PITCH=0.50 (±0.025), MAX. PITCH=0.50 (±0.025).

REV.	PART NUMBER	CONFIDENTIAL INFORMATION	LUMEX		290 E. HELEN ROAD PALATINE, IL 60067-8976 PHONE: +1.847.359.2790 US WEB: www.lumex.com TW WEB: www.lumex.com.tw
	LCM-S01602DTR/M-3V	THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.	DRAWN BY: 2.0.02		CHECKED BY:
	16 x 2 CHARACTER LCD MODULE, TN, REFLECTIVE.	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.	APPROVED BY:		DATE: 7.10.01 PAGE: 2 OF 2 SCALE: N/A