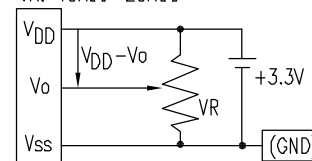


SCALE: N/A

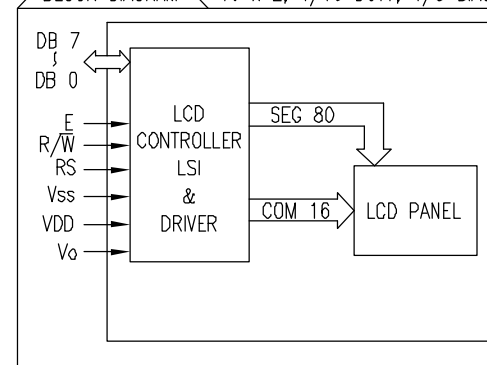
PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V _{SS}	—	POWER SUPPLY GND (0V) 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	—	—	

V_{DD}-V_O: LCD DRIVING VOLTAGE
VR: 10KΩ~20KΩ



BLOCK DIAGRAM 16 x 2, 1/16 DUTY, 1/5 BIAS



ELECTRICAL CHARACTERISTICS

V_{DD}=3.3V T_A=25°C

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	—	—	3.3	—	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
	LOW	V _{IL}	—	—	0.2V _{DD}	V
OUTPUT VOLTAGE	HIGH	V _{OH}	—	.75V _{DD}	—	V
	LOW	V _{OL}	—	—	2.2V _{DD}	V

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE	
			MIN	MAX
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	2.7	4.5
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	—	2.5@50°C	2.8@0°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

*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.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION -0.00 MAX.= +0.00 -DECIMAL PRECISION

REV.

PART NUMBER

LCM-S01602DTR/M-3

16 x 2 CHARACTER LCD MODULE, TN, REFLECTIVE.

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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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DATE: 7.10.01

PAGE: 2 OF 2

SCALE: N/A