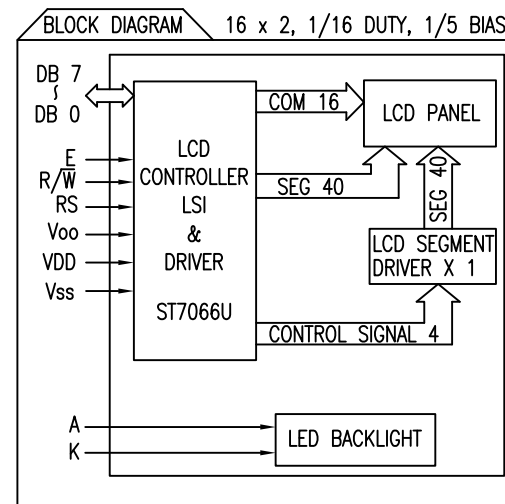
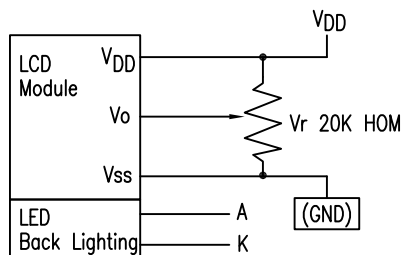


PIN CONFIGURATION						
PIN NO.	SYMBOL	LEVEL	FUNCTION			
1	V _{SS}	-	POWER SUPPLY	GND (0V)		
2	V _{DD}	-		5.0V		
3	V _O	-		CONTRAST ADJUST		
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT			
5	R/ \bar{W}	H/L	H: DATA READ (MODULE \rightarrow MPU) L: DATA WRITE (MODULE \leftarrow MPU)			
6	E	H,H \rightarrow L	ENABLE			
7~14	DB0~DB7	H/L	DATA BUS—SOFTWARE SELECTABLE 4 OR 8 BIT MODE.			
15	A	4.2V	LED POWER SUPPLY (+)			
16	K	0V	LED POWER SUPPLY (-)			



ELECTRICAL CHARACTERISTICS		$T_A = 25^\circ\text{C}$		STANDARD VALUE			UNIT
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.		
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	-	4.5	5.0	5.5	V	
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5.0V	-	2.0	3.0	mA	
LCD DRIVING VOLTAGE	V _{DD} -V _O	T _a =25°C	4.2	4.5	4.8	V	
INPUT VOLTAGE	HIGH	V _{IH}	-	2.0V	-	V _{DD}	V
	LOW	V _{IL}	-	0.0	-	0.60	V

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT	
			MIN	MAX		
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	-0.3	7.0	V	
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	-	-0.3	10	V	
INPUT VOLTAGE	V _I	T _a =25°C	-0.3	V _{DD}	V	
OPERATING TEMPERATURE	T _{opr}	LCM-S	0	50	°C	
STORAGE TEMPERATURE	T _{stg}	LCM-H	-20	+70	°C	

*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.=^{+DECIMAL PRECISION}-0.00

REV.	PART NUMBER LCM-S01602DSF/GYB
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5.56mm CHAR HT, 5x8 DOT MATRIX, TRANSFL, Y/G BKLT
16 x 2 LCD MODULE, 1/16 DUTY, 1/5 BIAS, STN, BLK BZL.

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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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