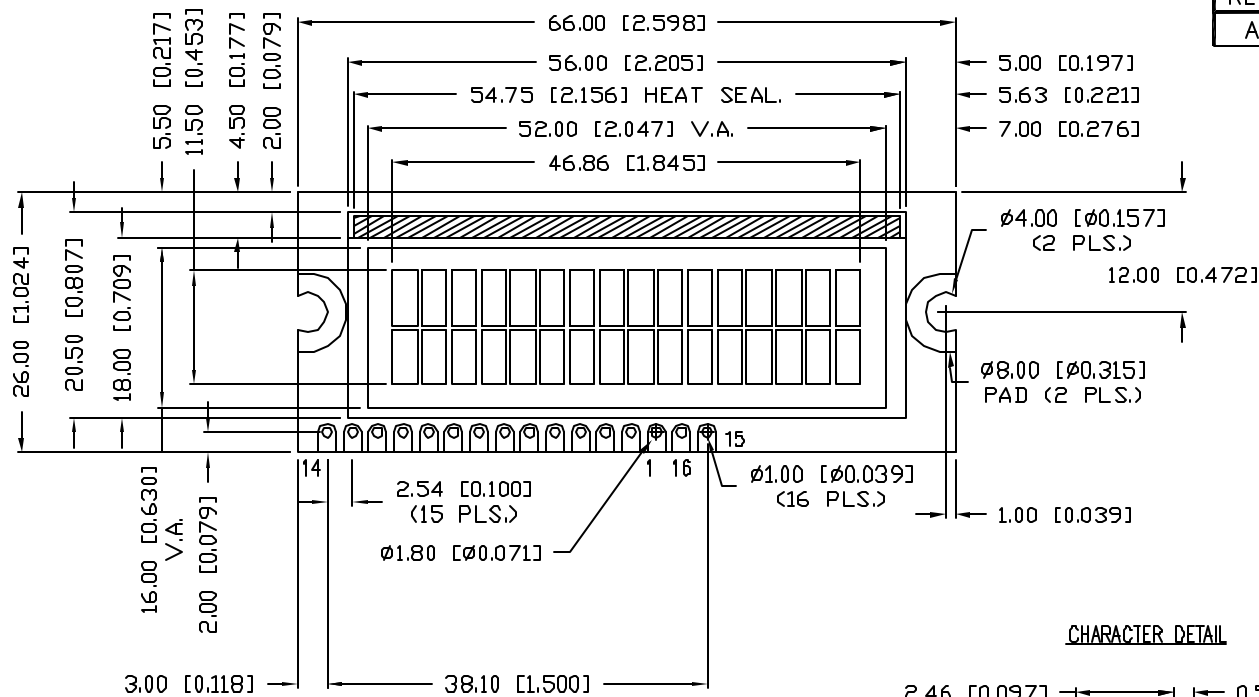
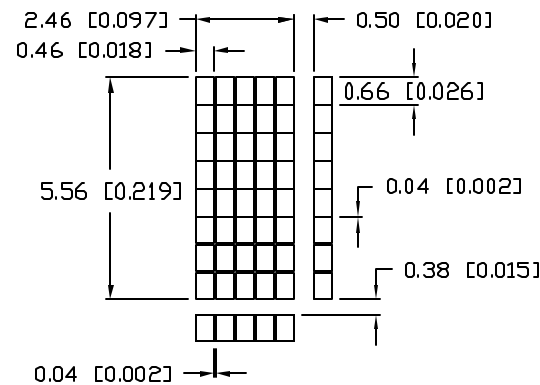


UNCONTROLLED DOCUMENT



CHARACTER DETAIL

PART NUMBER
LCM-S01602DTF/MM3REV.
A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	4.20.07

*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.

A

PART NUMBER

LCM-S01602DTF/MM3

16 x 2 CHARACTER LCD MODULE, TN, REFLECTIVE, 6:00 VIEW,
3V, 1/16 DUTY, 1/5 BIAS, WITH AMBER LED BACKLIGHT.

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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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PAGE: 1 OF 2

SCALE: N/A

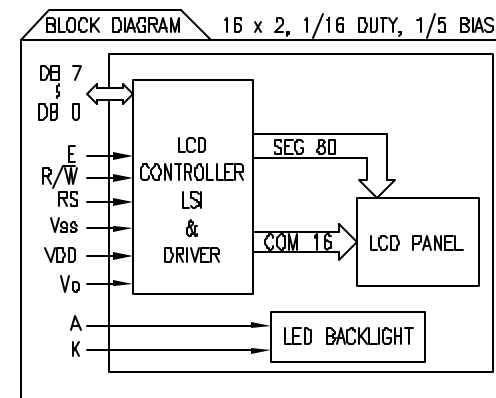
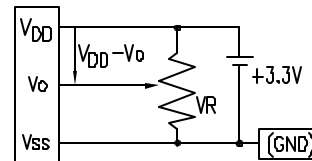


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PART NUMBER		REV.
LCM-S01602DTF/MM3		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	SEE PAGE #1	

PIN CONFIGURATION			
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V _{SS}	—	POWER SUPPLY
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	A	—	ANODE
16	K	—	CATHODE

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



ELECTRICAL CHARACTERISTICS			V _{DD} =3.3V T _A =25°C					
ITEM		SYMBOL	CONDITON	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 _{DD}	V	
	LOW	V _{IL}	-	-	-	0.2V _{DD}	V	
OUTPUT VOLTAGE	HIGH	V _{OH}	-	.75V _{DD}	-	-	V	
	LOW	V _{OL}	-	-	-	2.2V _{DD}	V	
*LED BACKLIGHT	VOLTAGE		V _f	I _f =40mA	4.0	4.2	-	V
	CURRENT		I _f	-	40	80	-	mA
	POWER CONSUMPTION		P _D	-	-	336	-	mW
	LUMINOUS		L	I _f =40mA	50	-	-	cd/m ²
	COLOR		-	AMBER	-	605	-	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

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

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