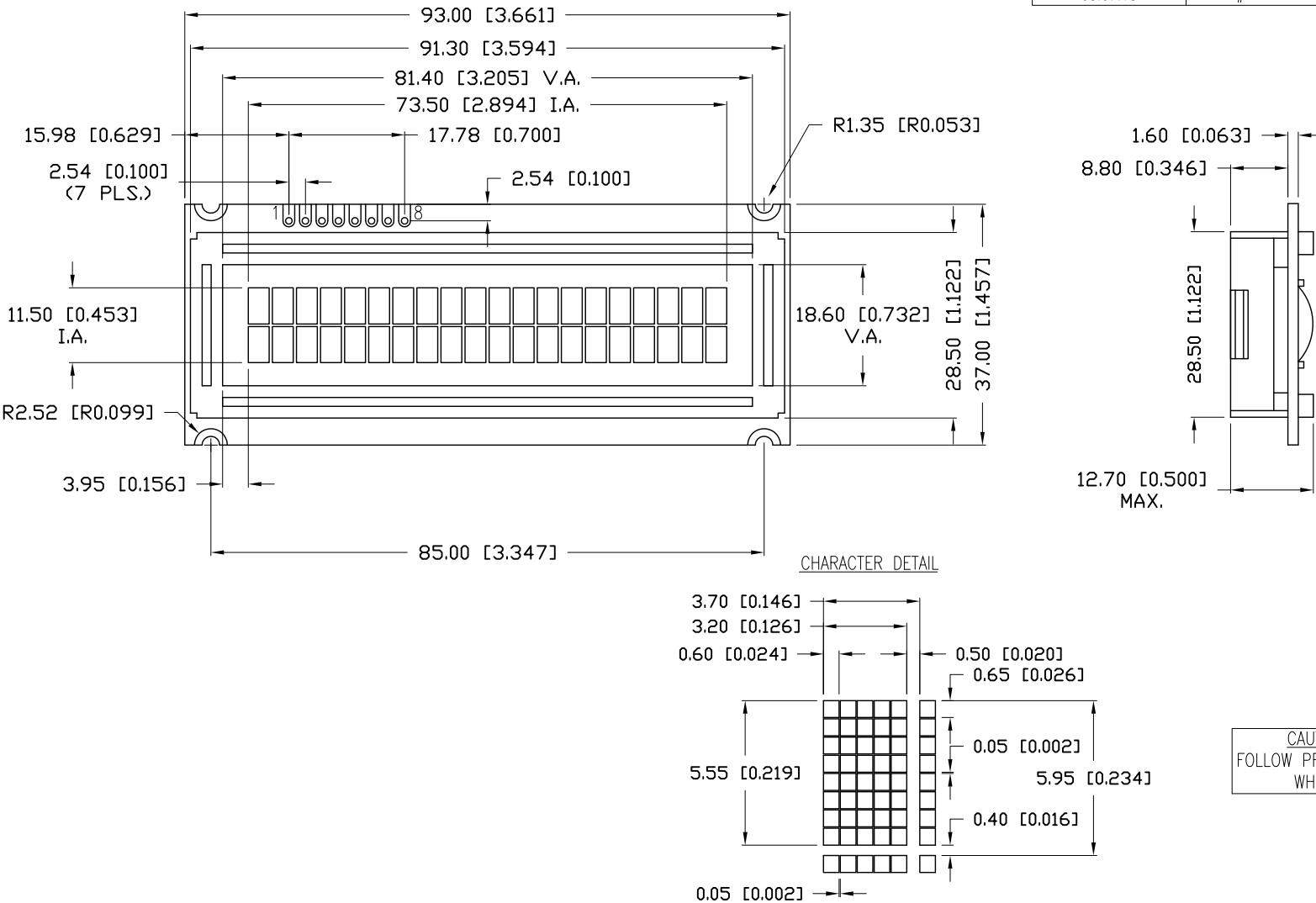


PART NUMBER	LCM-E02002DTF-U	REV.	B
DATE	E.C.N. NUMBER AND REVISION COMMENTS	REV.	
02.13.07	E.C.N. #11148.		A
05.07.13	E.C.N. #10BRDR. & REDRAWN.		B



*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 MAX.= +0.00 -0.00

UNCONTROLLED DOCUMENT

PART NUMBER	LCM-E02002DTF-U	REV.	B
DATE	E.C.N. NUMBER AND REVISION COMMENTS	REV.	
02.13.07	E.C.N. #11148.		A
05.07.13	E.C.N. #10BRDR. & REDRAWN.		B

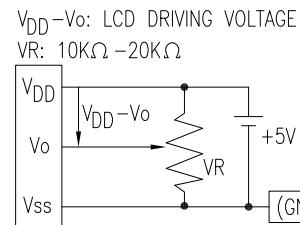
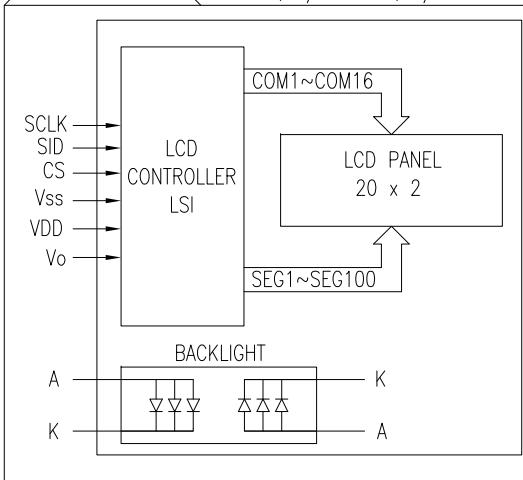
A

ELECTRICAL CHARACTERISTICS

 $V_{DD}=2.7V \sim 5.5V$, $TA=-30^{\circ}C \sim +85^{\circ}C$

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	—	—	5.0	—	V
SUPPLY CURRENT FOR LOGIC	I_{DD}	$V_{DD}=3V$	—	2.0	3.0	mA
INPUT VOLTAGE	HIGH	V_{IH}	—	$0.7V_{DD}$	—	V_{DD} V
	LOW	V_{IL}	—	-0.3	—	0.6 V
OUTPUT VOLTAGE	HIGH	V_{OH}	$I_{OH}=-0.205mA$	0.75 V_{DD}	—	V
	LOW	V_{OL}	$I_{OL}=1.6mA$	—	—	0.2 V_{DD} V
LED BACKLIGHT	VOLTAGE	V_f	$I_f=120mA$	3.0	—	3.6 V
	CURRENT	I_f	—	—	120	— mA
	POWER CONSUMPTION	PD	—	—	648	mW
	LUMINOUS INTENSITY	L	$I_f=120mA$	TBA	—	cd/m ²
	COLOR	—	—	470	—	nm

BLOCK DIAGRAM 20 x 2, 1/17 DUTY, 1/5 BIAS



ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE		UNIT
		MIN	MAX	
POWER SUPPLY VOLTAGE	V_{DD}	-0.3	7.0	V
POWER SUPPLY VOLTAGE	Vo	-15.0	+0.3	V
INPUT VOLTAGE	V_{in}	-0.3	3.0	V
OPERATING TEMPERATURE	T_{opr}	0	50	°C
STORAGE TEMPERATURE	T_{stg}	-20	70	°C

PIN CONFIGURATION

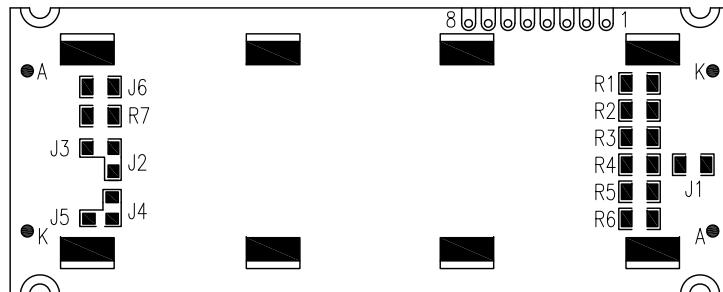
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V_{DD}	—	POWER SUPPLY
2	V_{SS}	—	
3	Vo	—	
4	\overline{CS}	H/L	CHIP SELECT SIGNAL H: CHIP DISABLED L: CHIP ENABLED
5	SID	H/L	SERIAL INPUT DATA LINE
6	SCLK	—	SERIAL CLOCK INPUT
7	K	—	CATHODE
8	A	—	ANODE
			LED BACKLIGHT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: $X=\pm 1$ (± 0.039), $X.X=\pm 0.5$ (± 0.020), $X.XX=\pm 0.25$ (± 0.010), $X.XXX=\pm 0.127$ (± 0.005). LEAD SIZE= ± 0.05 (± 0.002), LEAD LENGTH= ± 0.75 (± 0.030). MIN= $+\text{DECIMAL PRECISION}$ MAX= $+\text{DECIMAL PRECISION}$

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A

BACK VIEW FROM RIGHT SIDE PROJECTION

COMBINATIONS:

THE LED RESISTOR SHOULD BE BRIDGED AS FOLLOWING



THE 7TH PIN IS THE ANODE AND THE 8TH PIN IS THE CATHODE AS FOLLOWING



THE 7TH PIN IS THE CATHODE AND THE 8TH PIN IS THE ANODE AS FOLLOWING



THE METAL BEZEL IS ON GROUND AS FOLLOWING



LED POLARITY				LED POLARITY	
SYMBOL	STATE	J3, J5	J2, J4	7 PIN	8 PIN
J2, J4	SOLDER BRIDGE	OPEN	—	ANODE	CATHODE
J3, J5	SOLDER BRIDGE	—	OPEN	CATHODE	ANODE

*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 MAX= +0.00
-0.00

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