

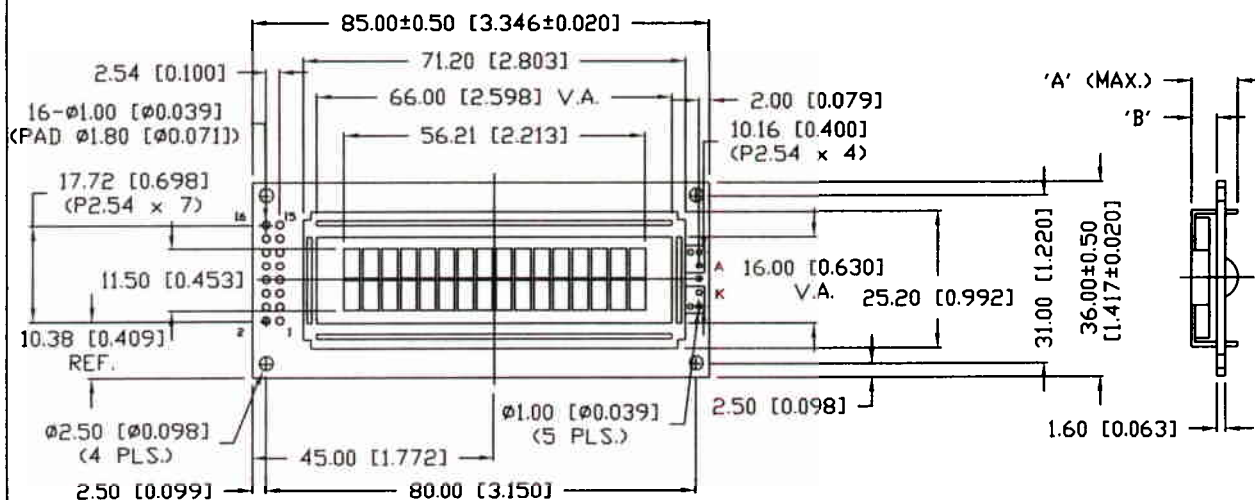
LCM-X01602DXX/F

16 x 2

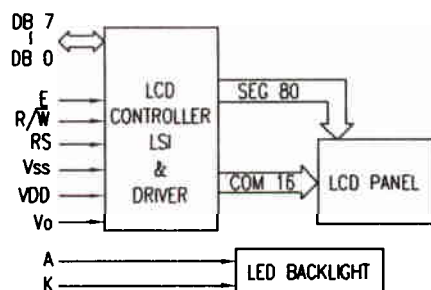
P/N PREFIX/SUFFIX TABLE

LCM-X	DX	DESCRIPTION
STANDARD	S	SR STN, REFLECTIVE
	SF	STN, TRANSFLECTIVE(W/ BACKLIGHT)
HIGH TEMP.	H	TR TN, REFLECTIVE
	TF	TN, TRANSFLECTIVE(W/ BACKLIGHT)

TYPE	DIM.	A	B
WITH BACKLIGHT		12.7	9.0
NO BACKLIGHT		8.8	4.8



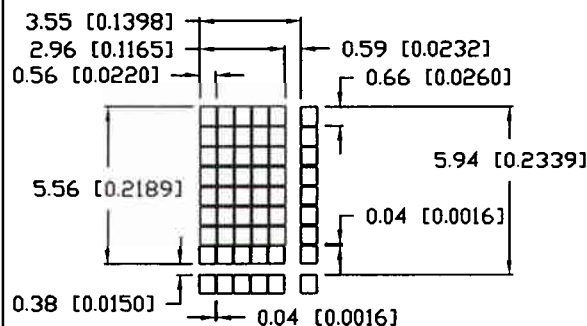
BLOCK DIAGRAM



PIN CONFIGURATION

PIN NO.	1	2	3	4	5
SYMBOL	Vss	VDD	Vo	RS	R/W
PIN NO.	6	7~14	15	16	
SYMBOL	E	DB0~DB7	A	K	

CHARACTER DETAIL



ELECTRICAL CHARACTERISTICS ($V_{DD}=4.7V$ to $5.3V$, $T_a=25^{\circ}C$)

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}	$V_{DD} = 5V$	-	2.0	3.0	mA
Input Voltage	High	V_{IH}	-	2.2	-	V_{DD}
	Low	V_{IL}	-	0	-	0.6
Output Voltage	High	V_{OH}	-	2.4	-	-
	Low	V_{OL}	-	-	-	0.4

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN.	MAX.	
Supply Voltage for Logic	$V_{DD} - V_{SS}$	$T_a = 25^{\circ}C$	4.7	5.3	V
Supply Voltage for LCD Drive	$V_{DD} - V_O$	-	4.2 @ $50^{\circ}C$	4.8 @ $0^{\circ}C$	V
Input Voltage	V_I	$T_a = 25^{\circ}C$	V_{SS}	V_{DD}	V
Operating Temperature	T_{opr}	LCM-S	0	50	$^{\circ}C$
		LCM-H	-20	70	$^{\circ}C$
Storage Temperature	T_{stg}	LCM-S	-20	70	$^{\circ}C$
		LCM-H	-30	85	$^{\circ}C$

MECHANICAL SPECIFICATIONS

PARAMETER	DIMENSIONS (mm)
Overall Size of Module	85.00 x 36.00 x 8.80
Overall Size with Led Backlight	85.00 x 36.00 x 12.70
Viewing Area	66.00 x 16.00
Character Size	2.96 x 5.56
Pixel Size	0.56 x 0.66

FEATURES

PART NUMBER	LCD MODE	BACKLIGHT
LCM-X01602DSR/F	STN REFLECTIVE	NONE
LCM-X01602DSF/F	STN TRANSFLECTIVE	LED
LCM-X01602DTR/F	TN REFLECTIVE	NONE
LCM-X01602DTF/F	TN TRANSFLECTIVE	LED

X = S (standard), or H (high)