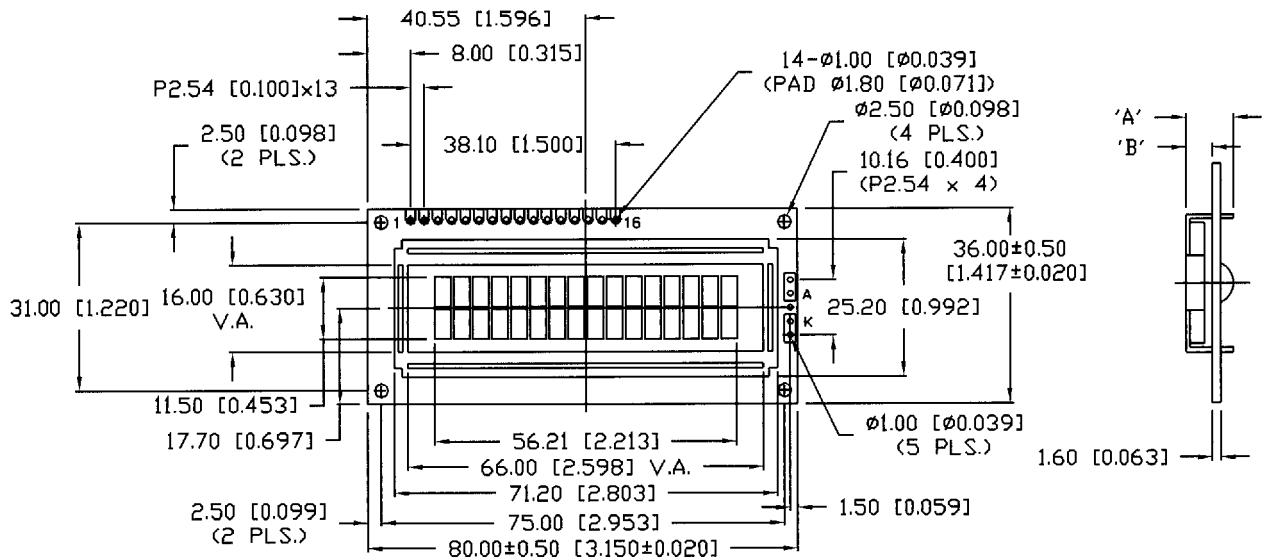


LCM-X01602DXX/A

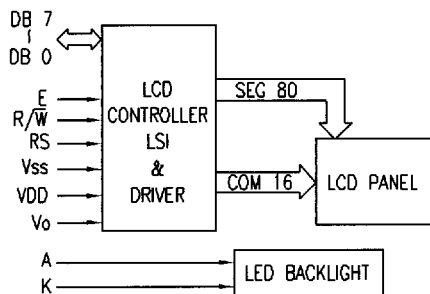
16 x 2

P/N PREFIX/SUFFIX TABLE		
LCM-X	DXX	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	8.7
NO BACKLIGHT		8.8	4.8



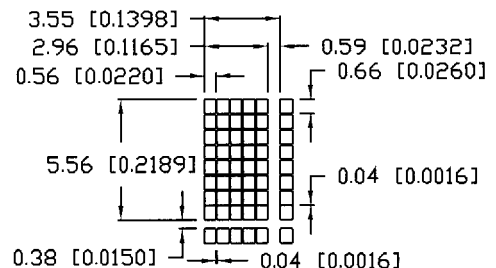
BLOCK DIAGRAM



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°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}	V
	Low	V _{IL}	-	0	-	0.6	V
Output Voltage	High	V _{OH}	-	2.4	-	-	V
	Low	V _{OL}	-	-	-	0.4	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	4.7	5.3	V
Supply Voltage for LCD Drive	V _{DD} - V _O	-	4.2 @ 50°C	4.8 @ 0°C	V
Input Voltage	V _I	T _a = 25°C	V _{SS}	V _{DD}	V
Operating Temperature	T _{opr}	LCM-S	0	50	°C
		LCM-H	-20	70	°C
Storage Temperature	T _{stg}	LCM-S	-20	70	°C
		LCM-H	-30	85	°C

MECHANICAL SPECIFICATIONS

PARAMETER	DIMENSIONS (mm)
Overall Size of Module	80.00 x 36.00 x 8.80
Overall Size with Led Backlight	80.00 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/A	STN REFLECTIVE	NONE
LCM-X01602DSF/A	STN TRANSFLECTIVE	LED
LCM-X01602DTR/A	TN REFLECTIVE	NONE
LCM-X01602DTF/A	TN TRANSFLECTIVE	LED

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