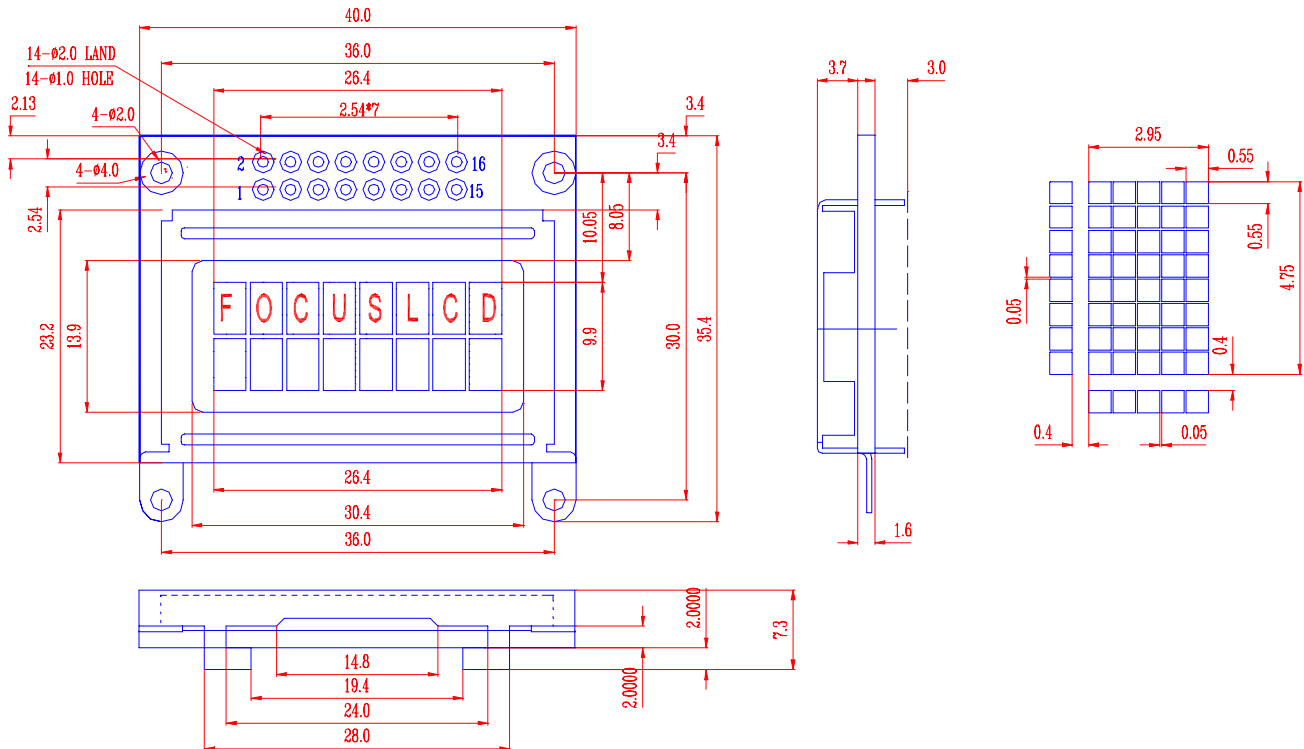


FOCUS DISPLAY SOLUTIONS

WWW.FOCUSLCD.COM

FDS8x2(36x30)XBC



- Feature:**
1. 5x8 Dots with cursor
 2. Built-in controller (KS0066U or Equivalent)
 3. +5V power supply (also available for +3.0V)
 4. 1/16 duty cycle
 5. BKL to be driven by pin1, pin2, or pin15, pin16, or A,K
 6. N.V. Optional

DISPLAY CHARACTER ADDRESS CODE:

Display position	1	2	3	4	5	6	7	8
DDRAM address	00	01	02	03	04	05	06	07
DDRAM address	40	41	42	43	44	45	46	47

Interface Pin Connections

NO	SYM	EXTERNAL CONNECTION	FUNCTION
1	V _{SS}	Power Supply	Signal ground for LMC (GND)
2	V _{DD}		Power Supply for logic (+5V) for LCM
3	V _O		Contrast Adjust
4	RS	MPU	Register select signal
5	R/W	MPU	Read/Write select signal
6	E	MPU	Operation (data read/write) enable signal
7~10	DB ₀ ~DB ₃	MPU	Four low order bi-directional three-state data bus lines. Used for data transfer between the MPU and the LCM. These four are not used during 4 bit.
11~14	DB ₄ ~DB ₇	MPU	Four high order bi-directional three-state data bus lines. Used for data transfer between the MPU
15	LED+	LED BKL Power supply	Power supply for BKL (+4.2V)
16	LED-		Power supply for BKL (GND)

Absolute Maximum Rating

ITEM	SYMBOL	STANDARD			UNIT
		MIN	TYP	MAX	
POWER VOLTAGE	V _{DD} -V _{SS}	0	---	7.0	V
INPUT VOLTAGE	V _{IN}	V _{SS}	---	V _{DD}	
OPERATING TEMPERATURE RANGE	V _{OP}	0	---	+50	°C
STORAGE TEMPERATURE RANGE	V _{ST}	-20	---	+60	

* Wide temperature range is available
(operating/storage temperature as -20~+70/-30~+80°C)

Electrical Characteristics

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE FOR LCD	V _{DD} -V _O	T _a =25°C	----	4.6	----	V
INPUT VOLTAGE	V _{DD}		4.7	----	5.5	
SUPPLY CURRENT	I _{DD}	T _a =25°C , V _{DD} =5.0V	----	1.5	2.5	mA
INPUT LEAKAGE CURRENT	I _{LKG}		----	----	1.0	UA
“H” LEVEL INPUT VOLTAGE	V _{IH}		2.2	----	V _{DD}	V
“L” LEVEL OUTPUT VOLTAGE	V _{IL}	Twice initial value or less	0	----	0.6	
“H” LEVEL OUTPUT VOLTAGE	V _{OH}	LOH=-0.25mA	2.4	----	----	
“L” LEVEL INPUT VOLTAGE	V _{OL}	LOH= 1.6mA	----	----	0.4	
BACKLIGHT SUPPLY VOLTAGE	V _F		----	4.2	4.6	