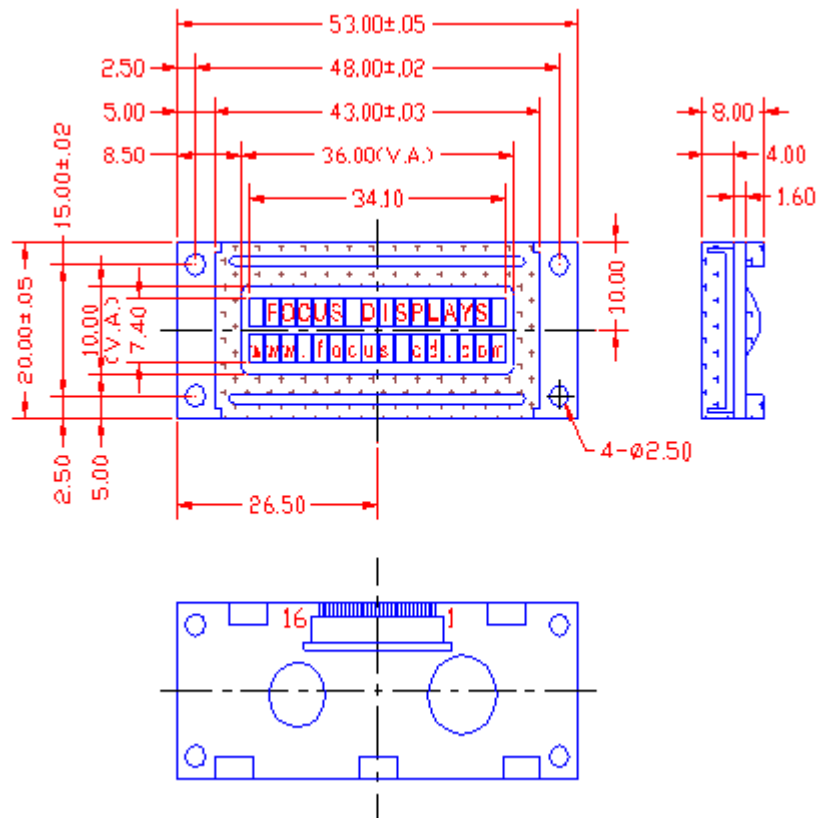


FOCUS DISPLAY SOLUTIONS

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FDS16x2(48x15)DBC



Feature:

1. 5x8 Dots with cursor
2. Built-in controller (SPLC780D or Equivalent)
3. +5V power supply (also available for +3.0V)
4. 1/16 duty cycle
5. BKL to be driven by pin15, pin16 or A,K

Interface Pin Connections

NO	SYM	LEVEL	FUNCTION	NO	SYM	LEVEL	FUNCTION
1	V _{SS}	0	GND	9	DB ₂	H/L	DATA BIT 2
2	V _{DD}	-	5V	10	DB ₃	H/L	DATA BIT 3
3	V ₀	-	CONTRAST ADJUSTMENT	11	DB ₄	H/L	DATA BIT 4
4	RS	H/L	REGISTER SELECT	12	DB ₅	H/L	DATA BIT 5
5	R/W	H/L	READ/WRITE	13	DB ₆	H/L	DATA BIT 6
6	E	H/L	ENABLE SIGNAL	14	DB ₇	H/L	DATA BIT 7
7	DB ₀	H/L	DATA BIT 0	15	A	4.7V	LED Backlight (+)
8	DB ₁	H/L	DATA BIT1	16	K	0V	LED Backlight (-)

Absolute Maximum Rating

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
POWER SUPPLY (LOGIC)	V _{DD} -V _{SS}	-0.3	---	7.0	V
POWER SUPPLY (LCD)	V _{DD} -V ₀	0	---	13.0	
INPUT VOLTAGE	V _I	-0.3	---	V _{DD}	

Electrical Characteristics

ITEM	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT VOLTAGE	V _{DD}	+ 5V	4.7	5.0	5.5	V
		+3.3V	2.7	3.0	5.3	V
SUPPLY CURRENT	I _{CC}	V _{DD} = 5V	--	1	1.2	mA
RECOMMENDED LCD DRIVING VOLTAGE FOR NORMAL TEMPERATURE VERSION MODULE	V _{DD} -V ₀	-20 C	---	5.0	---	V
		0 C	4.7	4.8	5.5	
		25 C	4.3	4.5	4.7	
		50 C	4.1	4.4	4.5	
LED FORWARD	V _F	25 C	4.2	4.7	5.0	V
LED FORWARD	I _F	25 C	---	20	---	mA
EL POWER SUPPLY CURRENT	I _{EL}	V _{EL} = 110V AC 400Hz	---	---	---	mA

Mechanical Data

ITEM	STANDARD	UNIT
MODULE DIMENSION	53 X 20	mm
VIEWING AREA	36 X 10	mm
CHARACTER SIZE	1.85 X 3.15	mm

DISPLAY CHARACTER ADDRESS CODE:

Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DDRAM address	00	01	02	--	--	--	--	--	--	--						0FH
DDRAM address	40	41	42	--	--	--	--	--	--	--						4FH