



Display Pattern

- 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

Interface Pin Connections

NO	SYM	FUNCTION	NO	SYM	FUNCTION
1	V _{SS}	GND	9	DB ₂	H/L Data bus line
2	V _{DD}	5V	10	DB ₃	H/L Data bus line
3	V ₀	CONTRAST ADJUSTMENT	11	DB ₄	H/L Data bus line
4	RS	H/L REGISTER SELECT SIGNAL	12	DB ₅	H/L Data bus line
5	R/W	H/L READ/WRITE SIGNAL	13	DB ₆	H/L Data bus line
6	E	H/L ENABLE SIGNAL	14	DB ₇	H/L Data bus line
7	DB ₀	H/L Data bus line	15	A	+4.2V For Backlight
8	DB ₁	H/L Data bus line	16	K	Power supply for BKL(0V)

Absolute Maximum Rating

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
POWER SUPPLY	V _{DD} -V _{SS}	-0.3	---	5.5	V
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 _{DD}	V _{DD} = 5V	---	1.5	4	mA
RECOMMENDED LCD DRIVING VOLTAGE FOR NORMAL TEMPERATURE VERSION MODULE	V _{DD} -V _O	-20°C	---	---	---	V
		0°C	4.7	5.0	5.5	
		25°C	4.3	4.5	4.7	
		50°C	4.1	4.3	4.5	
		70°C	---	---	---	
LED FORWARD VOLTAGE	V _F	25°C	---	4.2	4.6	V
LED FORWARD CURRENT	I _F	25°C	---	120	---	mA
EL POWER SUPPLY CURRENT	I _{EL}	V _{EL} = 110V AC 400Hz	---	---	---	mA

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