



- 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. N.V. Optional

Interface Pin Connections

NO	SYM	LEVEL	FUNCTION	NO	SYM	LEVEL	FUNCTION
1	V _{SS}	-	GND	8	DB 1	H/L	DATA BIT 1
2	V _{DD}	-	5V	9	DB2	H/L	DATA BIT 2
3	V _O	-	CONTRAST ADJUSTMENT	10	DB3	H/L	DATA BIT 3
4	RS	H/L	REGISTER SELECT	11	DB4	H/L	DATA BIT 4
5	R/W	H/L	READ/WRITE	12	DB5	H/L	DATA BIT 5
6	E	H/L	ENABLE SIGNAL	13	DB6	H/L	DATA BIT 6
7	DB 0	H/L	DATA BIT 0	14	DB7	H/L	DATA BIT 7

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	--	1.3	2	mA
RECOMMENDED LCD DRIVING VOLTAGE FOR NORMAL TEMPERATURE VERSION MODULE	V _{DD} -V _O	-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	
		70 C	---	4.3	---	
LED FORWARD VOLTAGE	V _F	25 C	---	4.2	4.6	V
LED FORWARD CURRENT	I _F	25 C	---	---	---	mA
EL POWER SUPPLY CURRENT	I _{EL}	V _{EL} = 110V AC 400Hz	---	---	---	mA

Mechanical Data

ITEM	STANDARD	UNIT
MODULE DIMENSION	66.7 X 23.3	mm
VIEWING AREA	61.7 X 15.6	mm
DOT SIZE	0.55 X 0.65	mm
CHARACTER SIZE	2.95 X 5.55	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