



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	DB7	H/L	Data bus line
8	DB0		
9	E	H/L	Enable signal
10	R/W	H/L	“H” Read, “L” Write
11	RS	H/L	“H” Data, “L” Instruction code
12	V _O	-	Operating voltage for LCD
13	V _{DD}	+5V	Power supply for logic
14	V _{SS}	0V	GND
15	CS1	H/L	00 10 01
16	CS2		L M R
17	V _{OUT}	-	Out voltage for LCD driving
18	/REST	L	Reset signal ,active “L”
19	LEDA	+5V	Power supply for LED backlight
20	LEDK	0V	

NOTES:

- Built-in KS0107/0108 controller
- +5V/+3.3V power supply optional
- Yellow green/blue mode optional
- Temperature compensation optional

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	100.0X60.0X12.0	mm
Viewing Area (W x H)	84.0X31.0	mm
Dot Pitch (W x H)	0.41X0.41	mm
Dot Size (W x H)	0.37X0.37	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	-0.3	7.0	V
Supply Voltage (LCD)	V _{DD} -V _O	-0.3	17.5	V
Input Voltage	V _I	-0.3	V _{DD} +0.3	V
Operating Temp.	T _{OPR}	-20	70	
Storage Temp.	T _{STG}	-30	80	

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V, Ta=25)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.8V _{DD}	-	V _{DD}	V
Input Low Voltage	V _{IL}	0	-	0.8	V
Output High Voltage	V _{OH}	2.4	-	V _{DD}	V
Output Low Voltage	V _{OL}	0	-	0.4	V
Supply Current	I _{DD}	-	6	8	mA
LCD Driving Voltage	V _{DD} -V _O	-	12	-	V

LED BACKLIGHT SPECIFICATIONS (Ta=25)

Item	Forward Voltage	Forward Current
YELLOW-GREEN	4.1V	210mA
White	3.1V	75mA