



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{SS}	0V	GND
2	V _{DD}	+5.0V	Power Supply for logic
3	V _O	--	Operating voltage for lcd
4	RS	H/L	“H” Data, “L”Instruction code
5	R/W	H/L	“H”Read,“L”Write
6	E	H-L	Enable signal
7	DB0	H/L	Data bus line
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	LEDA	+5.0V	Power Supply for LED
16	LEDK	0V	backlight

NOTES

1. Built-in controller(SPLC780D1 or Equivalent)
2. LED can be driven by pin15, pin16 or A and K

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size(W x H x T)	182.0 x 33.5 x 13.6	mm
Viewing Area(W x H)	154.4 x 16.5	mm
Character Size(W x H)	3.20 x 5.55	mm
Dot Size(W x H)	0.60 x 0.65	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 ₀	-0.3	13.0	V
Input Voltage	V _I	-0.3	V _{DD} +0.3	V
Operating Temp.	T _{OPR}	-20	70	°C
Storage Temp.	T _{STG}	-30	80	°C

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

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	2.2	--	V _{DD}	V
Input Low Voltage	V _{IL}	-0.3	--	0.6	V
Output High Voltage	V _{OH}	2.4	--	V _{DD}	V
Output Low Voltage	V _{OL}	0	--	0.4	V
Supply Current	I _{DD}	--	6.0	--	mA
LCD Drining Voltage	V _{DD} -V ₀	--	4.6	--	V

LED BACKLIGHT SPECIFICATIONS(Ta=25 °C)

Item	Forward Voltage	Forward Current
YELLOW-GREEN	4.2V	220mA
WHITE	3.1V	30mA