



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	VSS	0V	GND
2	VDD	+5.0V	Power Supply for logic
3	V0	-	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	Chip Enable signal
7~14	DB0~DB7	H/L	Data bus line
15	CS1	H	Chip selection for IC1
16	CS2	H	Chip selection for IC2
17	/REST	L	Reset signal, active "L"
18	VOUT	-	Negative voltage output
19	LEDA	+5.0V	Power Supply for LED
20	LEDK	0V	Backlight

NOTES:

1. Built-in controller(SBN0064G-D)
2. Parallel(6800-Serials) interface
3. 5.0V /3.3V power supply optional.

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	93.0X70.0X13.0MAX	mm
Viewing Area (W x H)	70.7 X38.8	mm
Dot Pitch (W x H)	0.52X0.52	mm
Dot Size (W x H)	0.48X0.48	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V _{DD} -V _{SS}	0	5.5	V
Supply Voltage(LCD)	V _{LCD}	0	16.0	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	Sym.	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	V _{DD} -2.2	--	V _{DD}	V
Input Low Voltage	V _{IL}	0	--	0.8	V
Output High Voltage	V _{OH}	V _{DD} -2.2	--	V _{DD}	V
Output Low Voltage	V _{OL}	0	--	0.3	V
Supply Current	I _{DD}	-	6	-	mA

LED BACKLIGHT SPECIFICATION (Ta=25°C)

Item	Forward Voltage	Forward Current
White	3.0V	If=60 mA
Yellow-Green	3.0V	If=60 mA