



SG16032C (160 DOTS X32 DOTS)

FEATURES

BUILT-IN CONTROLLER (ST7920 OR EQUIVALENT)

+5 V POWER SUPPLY

1/32 DUTY CYCLE

8-BIT PARALLEL INTERFACE

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	122.0 x 40.0 x 13.6	mm
Viewing Area (W x H)	99.0 x 24.0	mm
Active Area (W x H)	94.36 x 19.16	mm
Dot Size (W x H)	0.55 x 0.56	mm
Dot Pitch (W x H)	0.59 x 0.60	mm

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	Vss	0V	Supply Ground
2	VDD	5V	Supply Voltage
3	Vo	-	LCD driver supply voltage
4	RS(CS)	H/L	Register Select (Serial Chip select)
5	R/W(SID)	H	Read/Write (Sserial data input)
6	E(SCLK)	H	Enable Signal (Serial clock)
7~14	DB0~DB7	H	Data Bus Line
15	PSB	H/L	H:Paraller mode L:Serial mode
16	NC	-	No Connection
17	/RST	L	Reset Select
18	VOOUT	-	Power Supply Voltage For LCD
19	A	4.2V	LED Power (+)
20	K	0V	LED Power (-)

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	VDD-Vss	0	-	6	V
Supply Voltage For LCD Drive	VDD-Vo	0	-	7	V
Input Voltage	Vi	Vss	-	VDD	V

ELECTRICAL CHARACTERISTICS

ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic		VDD-VSS	-	4.5	5	5.5	V
Supply Voltage For LCD		VDD-V ₀	VDD=5V Ta=25	4.5	4.8	5.2	V
Supply Current		IDD	VDD=5V	-	2.5	4.5	mA
Input	"HIGH" Level	V _{IH}	-	2.2	-	VDD	V
Voltage	"LOW" Level	V _{IL}	-	-	-	0.6	V
Output	"HIGH" Level	V _{OH}	-	2.4	-	-	V
Voltage	"LOW" Level	V _{OL}	-	-	-	0.4	V

EXTERNAL DIMENSIONS

