SG12232D (122 DOTS X 32 DOTS)

FEATURES

- ◆ BUILT-IN CONTROLLER (SED1520 OR EQUIVALENT)
- ◆ +5 V POWER SUPPLY
- ◆ 1/32 DUTY CYCLE
- ◆ 8-BIT PARALLEL INTERFACE
- ◆ 4.2 V LED FORWARD VOLTAGE

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	84.0 x 44.0 x 8.8 (12.7 LED)	mm
Viewing Area (W x H)	60.5 x 18.5	mm
Active Area (W x H)	53.64 x 15.64	mm
Dot Size (W x H)	0.40 x 0.45	mm
Dot Pitch (W x H)	0.44 x 0.49	mm

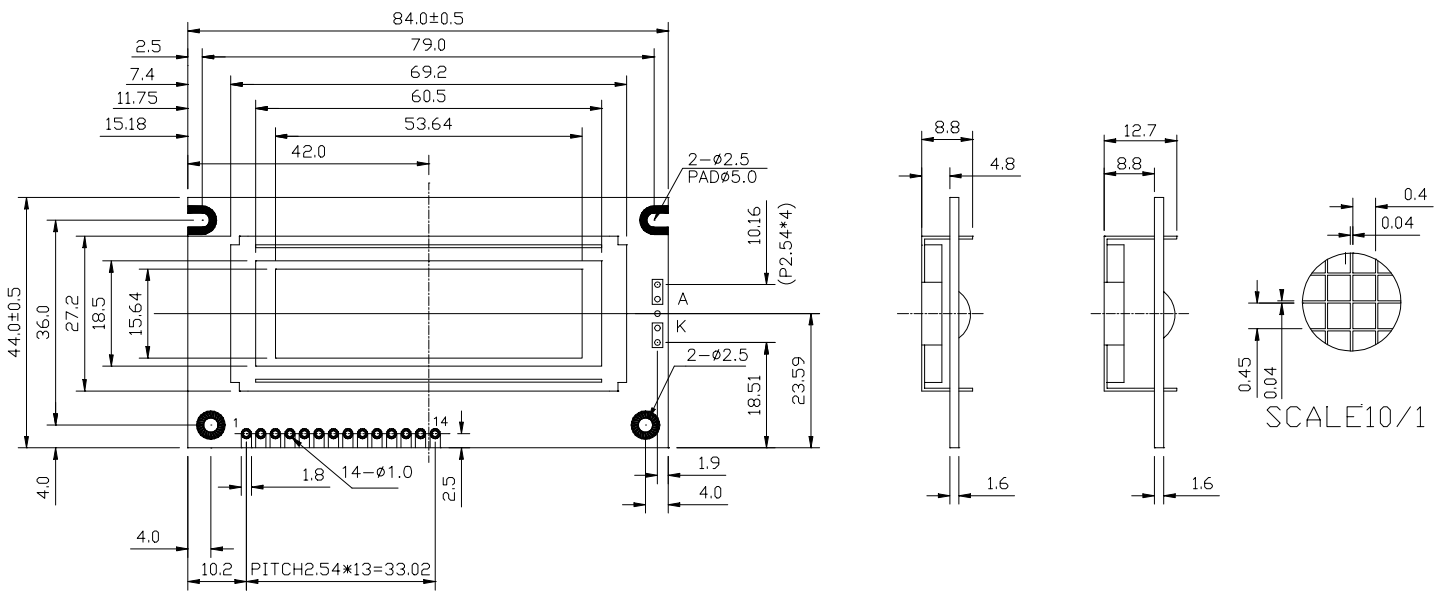
INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	V_{SS}	0V	Power Supply Ground
2	V_{DD}	5V	Power Supply Voltage
3	V_O	-	Contrast Adjustment Voltage
4	Ao	H/L	Data Type Select Signal
5	E1	L	Chip Enable Signal For IC1
6	E2	L	Chip Enable Signal For IC2
7	DB0	H/L	Data Bit 0
8	DB1	H/L	Data Bit 1
9	DB2	H/L	Data Bit 2
10	DB3	H/L	Data Bit 3
11	DB4	H/L	Data Bit 4
12	DB5	H/L	Data Bit 5
13	DB6	H/L	Data Bit 6
14	DB7	H/L	Data Bit 7

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V_{DD}-V_{SS}	0	-	7	V
Supply Voltage For LCD Drive	V_{DD}-V_o	0	-	12	V
Input Voltage	V_I	Vss	-	V_{DD}	V

ELECTRICAL CHARACTERISTICS

ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic		V_{DD}-V_{SS}	-	4.5	5	5.5	V
Supply Voltage For LCD		V_{DD}-V_o	V_{DD}=5V Ta=25℃	4.4	4.8	5.2	V
Supply Current		I_{DD}	V_{DD}=5V	-	2.5	4.5	mA
Input Voltage	"HIGH" Level	V_{IH}	-	2.2	-	V_{DD}	V
	"LOW" Level	V_{IL}	-	-	-	0.6	V
Output Voltage	"HIGH" Level	V_{OH}	-	2.4	-	-	V
	"LOW" Level	V_{OL}	-	-	-	0.4	V

EXTERNAL DIMENSIONS