SG16036A (160 DOTS X 36 DOTS)

FEATURES

- ◆ RECOMMENDED CONTROLLER (HD64646/MSM6225/SED1335)
- ◆ +5 V POWER SUPPLY
- ◆ 1/36 DUTY CYCLE
- ◆ EDGE LIGHTING TYPE LED BACKLIGHT

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	180.0 x 65.0 x 9.7 (13.8 LED)	mm
Viewing Area (W x H)	134.0 x 40.4	mm
Active Area (W x H)	127.96 x 33.88	mm
Dot Size (W x H)	0.76 x 1.02	mm
Dot Pitch (W x H)	0.80 x 1.06	mm

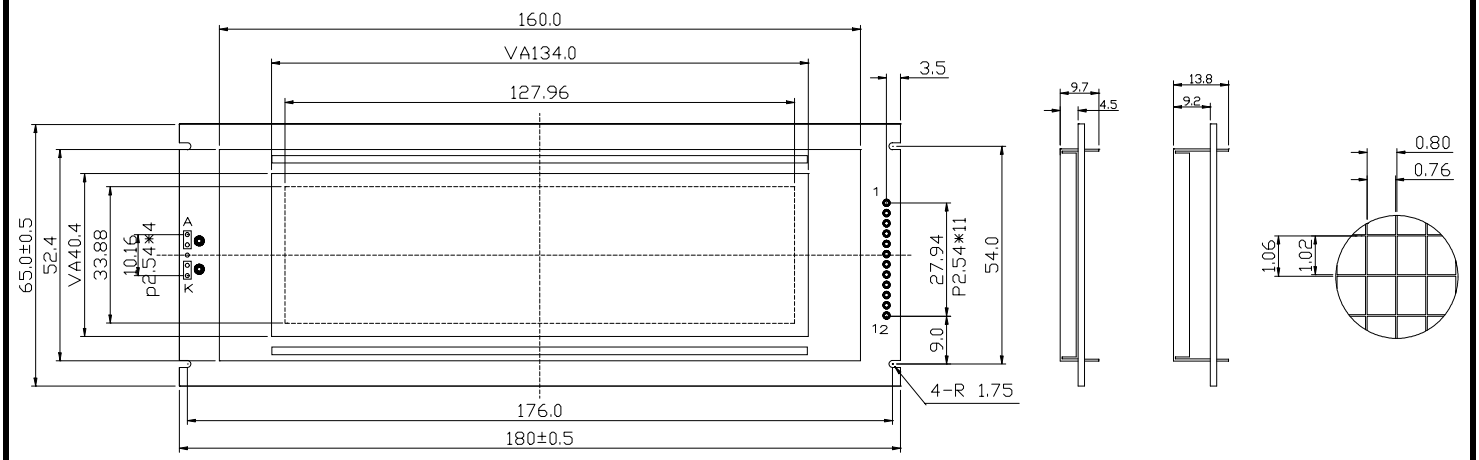
INTERFACE PIN CONNECTIONS

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	FLM	H	Frame Start Signal
5	CL1	H⟶L	Common Driver Data Shift Signal
6	CL2	H⟶L	Clock Pulse For Segment Shift Register
7	M	H/L	Control Signal For AC Driving
8	DB0	H/L	Data Bit0
9	DB1	H/L	Data Bit1
10	DB2	H/L	Data Bit2
11	DB3	H/L	Data Bit3
12	V_{EE}	-	Power Supply Voltage For LCD

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	-	18	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
LCD Supply Voltage		V_{DD}-V_o	V_{DD}=5V Ta=25℃	7.7	8.4	9	V
Supply Current		I_{DD}	V_{DD}=5V	-	10	16	mA
Input Voltage	"HIGH" Level	V_{IH}	-	2.2	-	VDD	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