KG128064A-M (128 DOTS × 64 DOTS)

■ FEATURES

- ◆ BUILT-IN CONTROLLER (ST7565S OR EQUIVALENT)
- ◆ +3.0V POWER SUPPLY
- ◆ 1/65 DUTY CYCLE
- ◆ 8-BIT PARALLEL OR SERIAL INTERFACE
- ◆ 5.0V LED FORWARD VOLTAGE

■ MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W × H × T)	80x63x9.7	mm
Viewing Area (W × H)	70.7x38.8	mm
Active Area (W × H)	66.52x33.24	mm
Dot Size (W × H)	0.48x0.48	mm
Dot Pitch (W × H)	0.52x0.52	mm

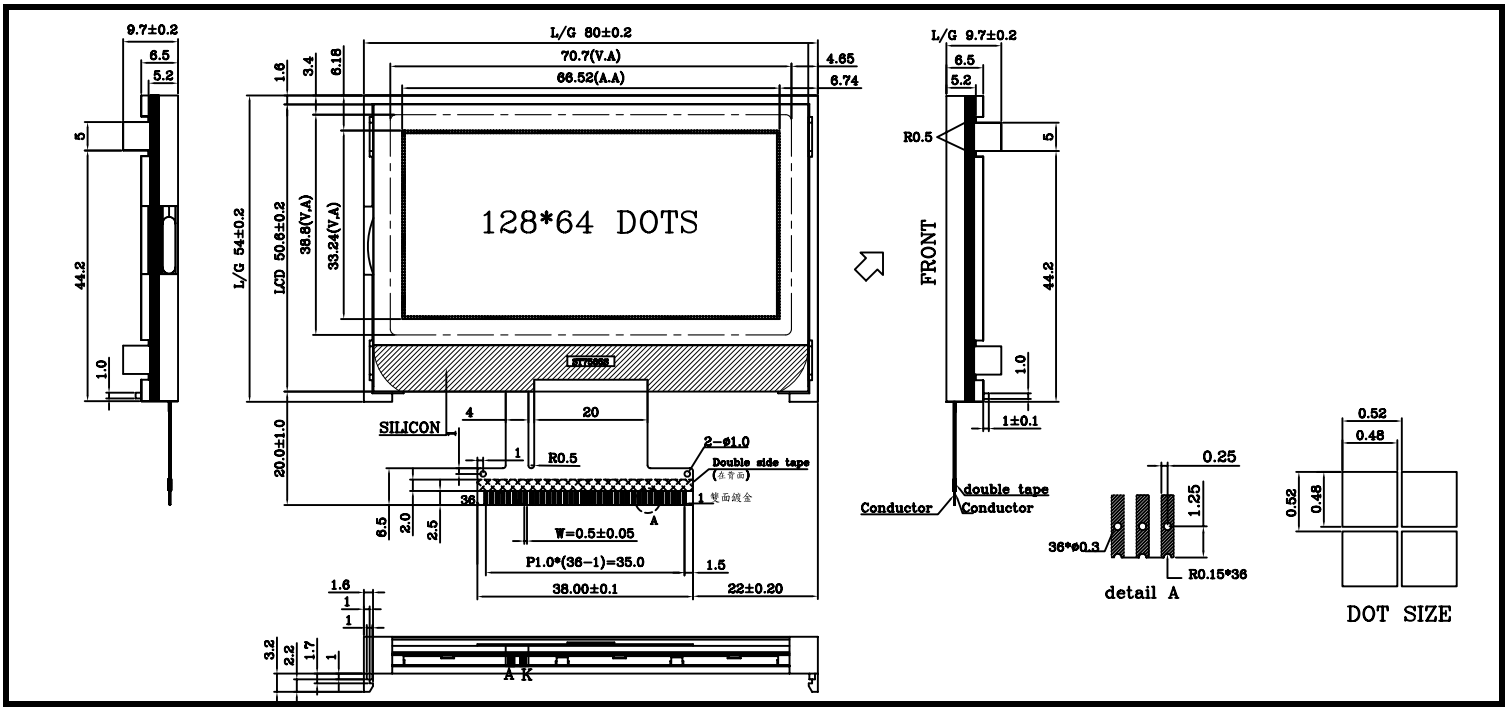
■ INTERFACE PIN CONNECTIONS

NO	SYMBOL	FUNCTION
1	/CS1	Chip Select
2	/RES	Reset Input
3	A0	Data Type Select Signal
4	WR(R/W)	Read/Write
5	RD(E)	Enable Signal
6~13	D0~D7	Data Bus Line
14	VDD	3.0V
15	VSS	0V
16	VOUT	DC/DC Voltage Converter
17~23	C5N~C4N	Internal DC/DC Voltage Converter
24	VRS	Power Supply for Regulator Voltage
25~29	V1~V5	LCD Driving Voltage Levels
30	VR	Contrast Adj.
31	C86	6800 or 8080 Interface
32	P/S	Parallel or Serial Data Input
33	HPM	Power Mode Select
34	IRS	Internal Resistors Select for V0
35	K	LED 0V
36	A	LED ＋5.0V

■ ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V_{DD}	0	-	5	V
Supply Voltage For LCD	V_{LCD}	0	-	9.95	V
Input Voltage	V_{IN}	V_{SS}	-	V_{DD}	V

■ ELECTRICAL CHARACTERISTICS

ITEM		SYMBOL	CONPITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic		V_{DD}-V_{SS}	-	-	3.3	-	V
Supply Voltage For LCD		V_{LCD}	V_{DD}=3.3V, Ta=25℃	9.55	9.75	9.95	V
Supply Current For LCD		I_{DD}	V_{DD}=3.3V	-	-	2	mA
Input Voltage	“HIGH” Level	V_{IH}	-	2.2	-	V_{DD}	V
	“LOW” Level	V_{IL}	-	0	-	0.6	V
Output Voltage	“HIGH” Level	V_{OH}	-	2.4	-	V_{DD}	V
	“LOW” Level	V_{OL}	-	0	-	0.4	V

■ EXTERNAL DIMENSIONS