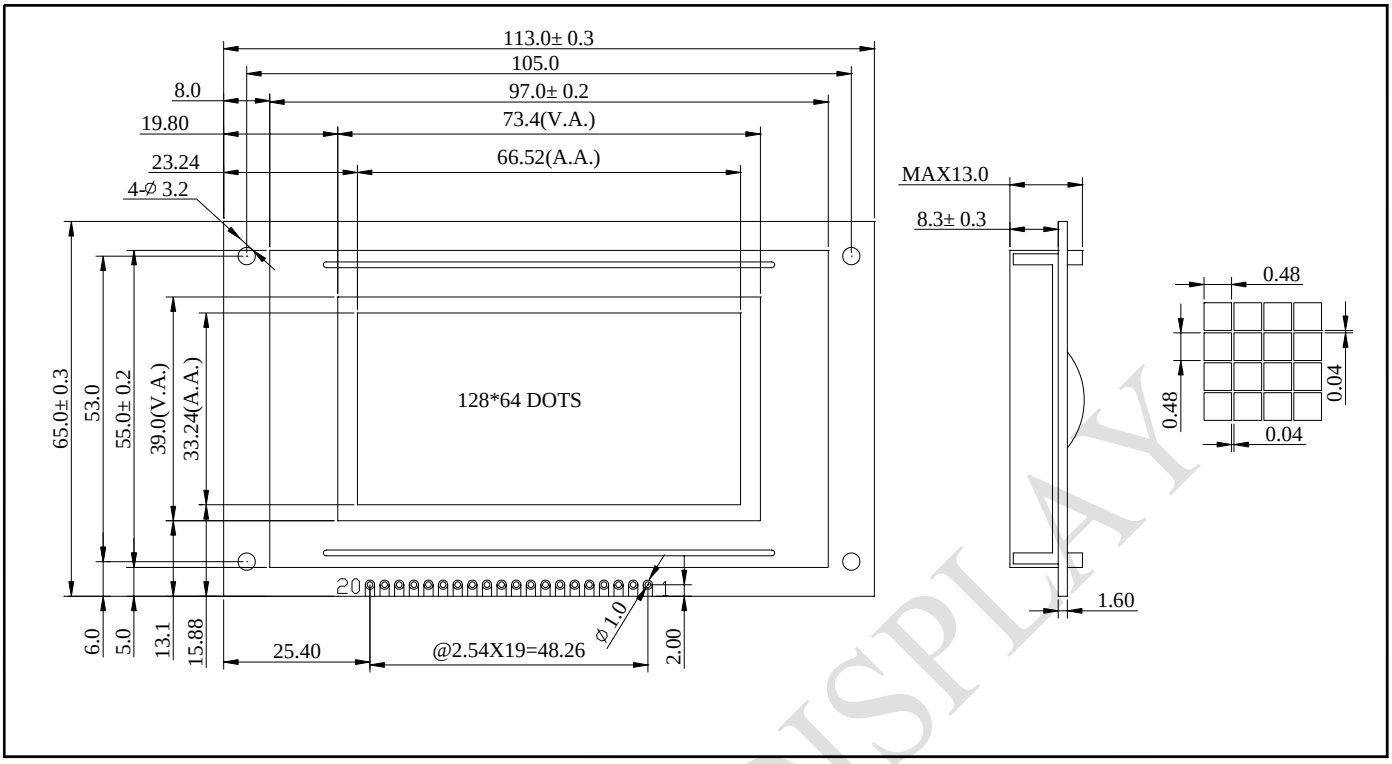
HG128641 1/64DUTY 1/9BIAS



TSINGTEK DISPLAY

PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V_{SS}	0V	GND
2	V_{DD}	+5V	Power supply for logic
3	V_O	-	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	Enable signal
7	DB0	H/L	Data bus line
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	CS1	H	Chip selection for IC1
16	CS2	H	Chip selection for IC2
17	/REST	L	Reset signal ,active "L"
18	V_{OUT}	-	Negative Voltage output
19	LEDA	+5V	Power supply for LED backlight
20	LEDK	0V	

NOTES: Built-in KS0107/0108 controller

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	113.0X65.0X13.0	mm
Viewing Area (W x H)	73.4X39.0	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}	-0.3	7.0	V
Supply Voltage (LCD)	V_{DD}-V_O	-0.3	17.5	V
Input Voltage	V_I	-0.3	V_{DD}+0.3	V
Operating Temp.	T_{OPR}	-20	70	℃
Storage Temp.	T_{STG}	-30	80	℃

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V, Ta=25℃)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V_{IH}	0.8V_{DD}	-	V_{DD}	V
Input Low Voltage	V_{IL}	0	-	0.8	V
Output High Voltage	V_{OH}	2.4	-	V_{DD}	V
Output Low Voltage	V_{OL}	0	-	0.4	V
Supply Current	I_{DD}	-	6	8	mA
LCD Driving Voltage	V_{DD}-V_0	-	11.5	-	V

LED BACKLIGHT SPECIFICATIONS (Ta=25℃)

Item	Forward Voltage	Forward Current
YELLOW-GREEN	4.1V	120mA
White	3.1V	60mA