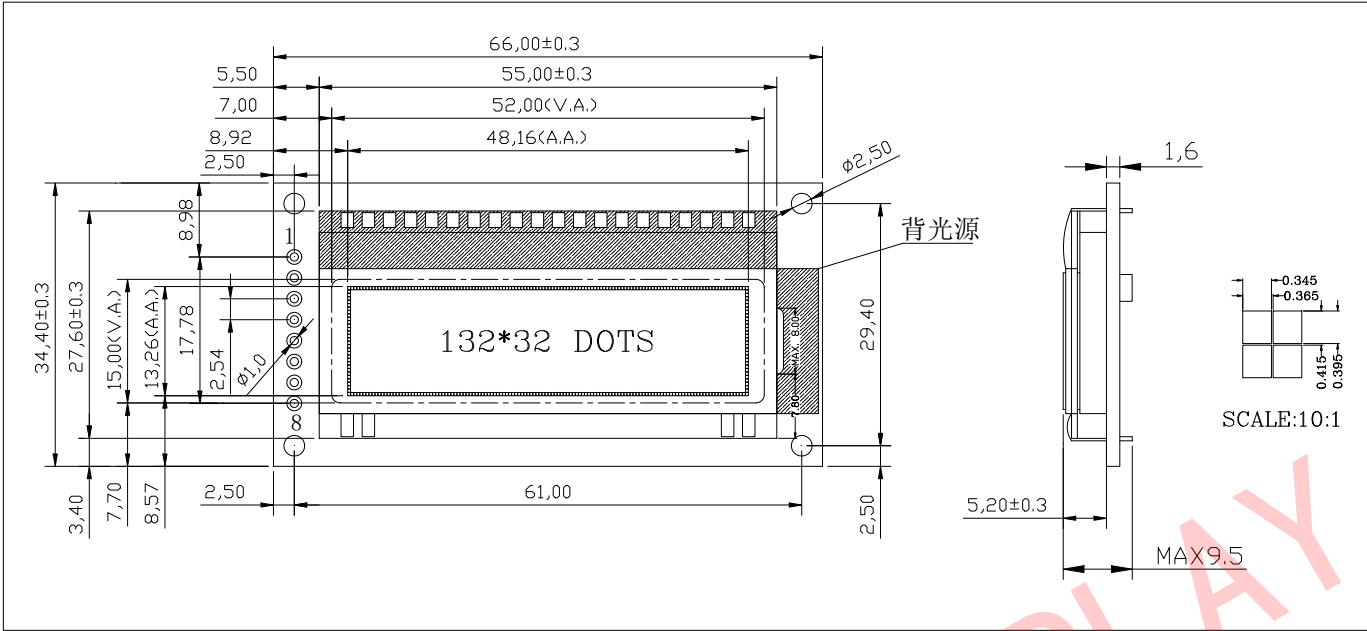




PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{DD}	+3.3V	Power supply
2	V _{SS}	0V	GND
3	SDA	H/L	Serial data
4	SCL	H/L	Serial clock
5	A0	H/L	Data/Instruction select
6	/REST	H/L	Reset signal
7	/CS	H/L	Chip select
8	LEDC	H/L	LED Backlight control

NOTES:

1. 4-wire SPI interface
2. Built-in controller (ST7565R)

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	66.0X34.4X9.5	mm
Viewing Area (W x H)	52.0X15.0	mm
Dot Pitch	0.365X0.415	mm
Dot Size	0.345X0.395	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V _{DD} -V _{SS}	0	3.3	V
Operating Temp.	T _{OPR}	-30	70	°C
Storage Temp.	T _{STG}	-30	80	°C

ELECTRICAL CHARACTERISTICS(V_{DD}=3.3V, T_a=25°C)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.8V _{DD}	-	V _{DD}	V
Input Low Voltage	V _{IL}	V _{SS}	-	0.2V _{DD}	V
Output High Voltage	V _{OH}	0.8V _{DD}	-	V _{DD}	V
Output Low Voltage	V _{OL}	V _{SS}	-	0.2V _{DD}	V
Supply Current	I _{DD}	-	TBD	-	mA