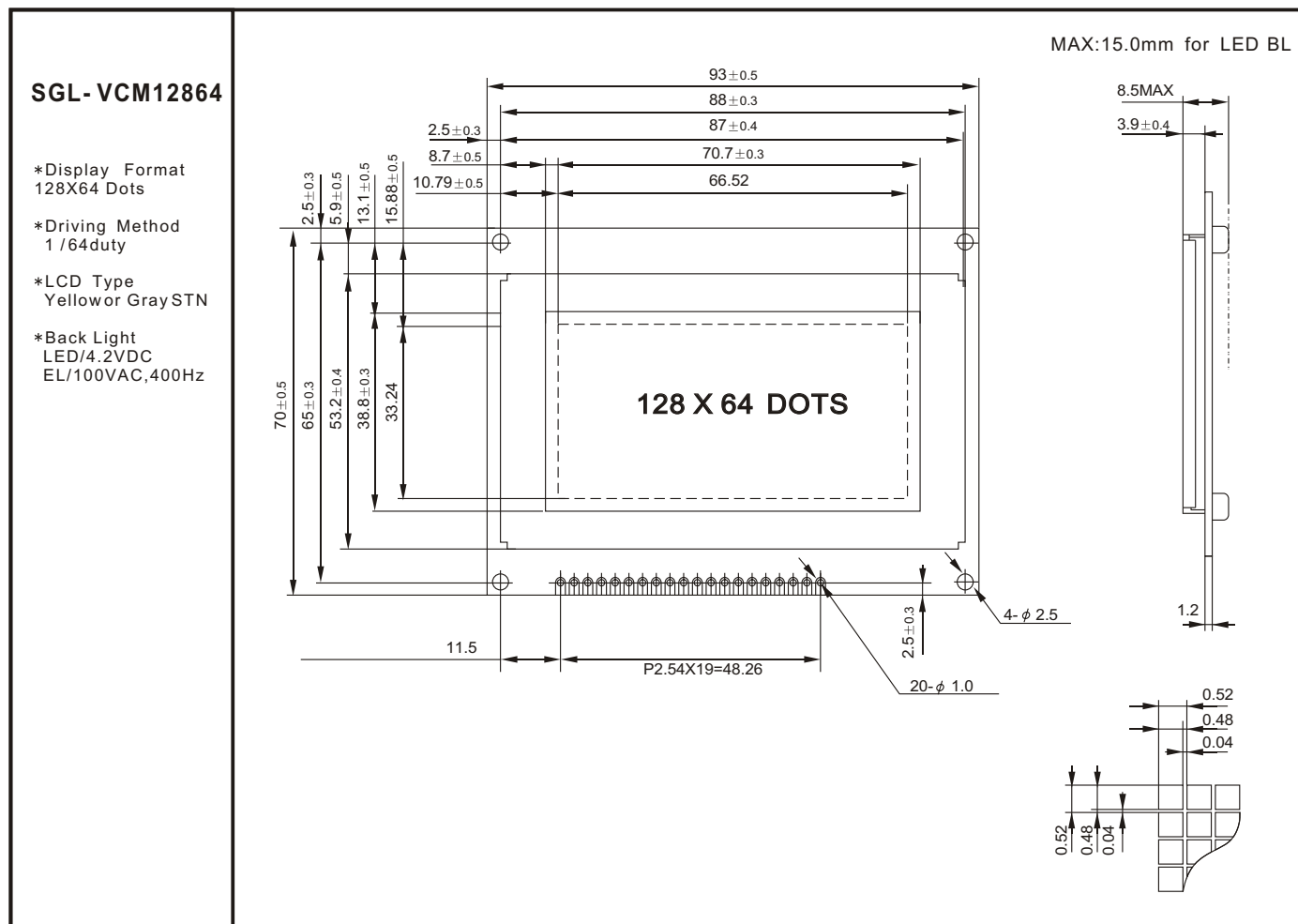




Electro-Optical Characteristics

(V_{SS}=0V)

Item	Symbol	Condition	Min	Typ.	Max.	Unit
Supply Voltage	Logic	V _{DD}	4.75	5.0	5.5	V
	LCD Drive	V _{DD} -V _{EE}	-	-	17	
Input Voltage	"H" level	V _{IH}	0.8V _{DD}	-	-	V
	"L" level	V _{IL}	0	-	-	
Frame Frequency	f _{FLM}	V _{DD} =5V	65	78	-	Hz
Current Consumption	I _{DD}	V _{DD} =5V V _{EE} =V _{SS} =11.6V f _{FLM} =78Hz	-	1.7	3.4	mA
LCD Drive Voltage (Recommend Voltage)	V _{OP}	T _a =0°C θ=0°, θ=0°	-	-	-	V
		T _a =25°C θ=0°, θ=0°	-	14.5	-	
		T _a =40°C θ=0°, θ=0°	-	-	-	
Response Time	Rise Time	Tr	T _a =25°C	-	250	ms
	Decay Time	Td	θ=0°, θ=0°	-	300	
Viewing Angle	Δθ	θ=0°	60	-	-	deg
		θ=90°	60	-	-	
Contrast Ratio	K	θ=0°, θ=0°	2.0	4.0	-	-

Note 1) Duty=1/64

Note 2) All Dots on State

I/O Connection

Pin No.	Symbol	Function
1	V _{SS}	Signal Ground
2	V _{DD}	Power Supply for Logic
3	V ₀	Power Supply for LCD
4	D/I	Signal to Select Registers
5	R/W	Read and Write
6	E	Enable Signal
7~14	DB0~DB7	Data Line
15	CS1	Chip Selection Signal for IC1
16	CS2	Chip Selection Signal for IC2
17	RST	Reset
18	V _{out}	Output Voltage for LCD Driving
19	Nc	No Connection
20	Nc	No Connection