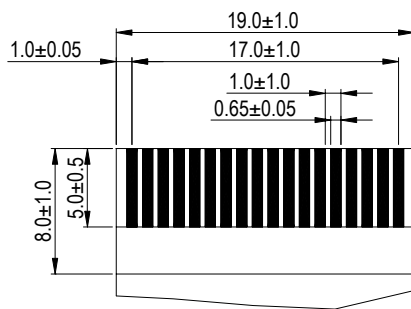
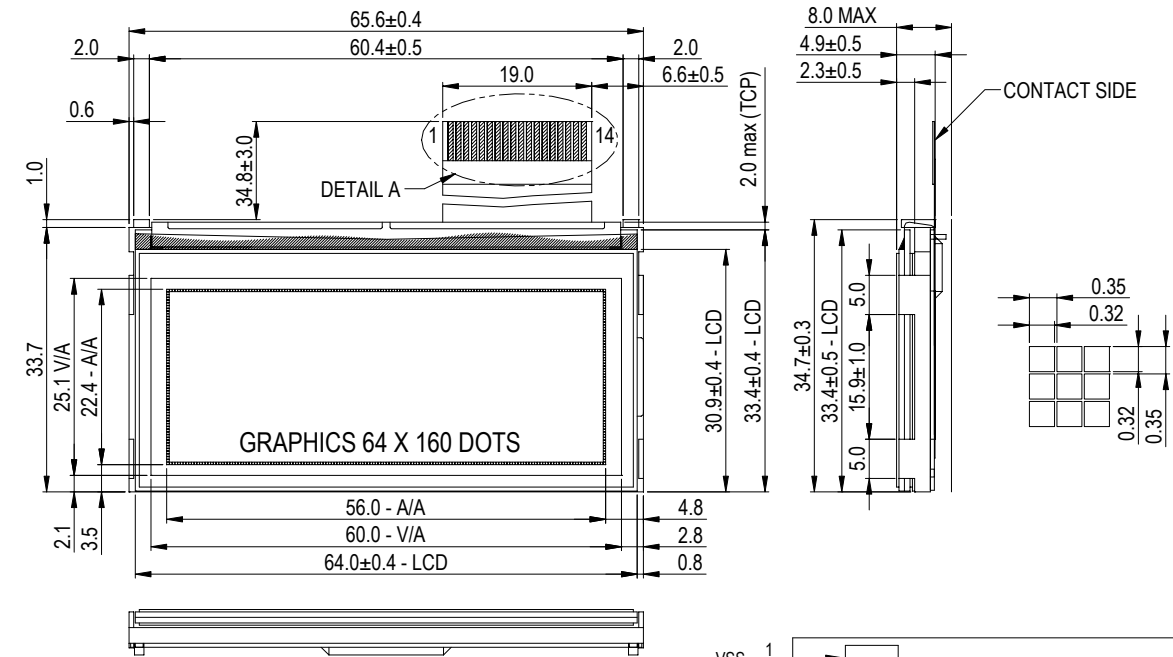




STANDARD GRAPHICS MODULES

G64160X01 OUTLINE DIMENSION AND BLOCK DIAGRAM



DETAIL A

The tolerance unless classified ± 0.3 mm

PIN ASSIGNMENT

Pin No.	Symbol	Function
1	VSS	Ground Terminal
2	VDD	Supply Terminal
3	RES	Reset
4	D/C	-
5	RD (R/W)	Read (Write / Read Selection)
6	WR (CLK)	Write (Clock)
7	D0	Data Bus Line
8	D1	Data Bus Line
9	D2	Data Bus Line
10	D3	Data Bus Line
11	D4	Data Bus Line
12	D5	Data Bus Line
13	D6	Data Bus Line
14	D7	Data Bus Line
15	CE	IC Enable
16	68/80	MCU Interface
17	A	Backlight Power Supply
18	K	Backlight Ground

NOTE :

1. BACKLIGHT : SIDE LED BACKLIGHT

ABSOLUTE MAXIMUM RATING

Item	Symbol	Conditions	Min.	Max.	Unit
Power Supply Voltage	Vdd-Vss	-	-0.3	4.0	V
Input Voltage	Vin	-	Vss-0.3	Vdd+0.3	V
NORMAL	OPERATING TEMPERATURE	Topr	Normal	0	+50 °C
	STORAGE TEMPERATURE	Tstg	Normal	-20	+70 °C
WIDE	OPERATING TEMPERATURE	Topr	Normal	-20	+70 °C
	STORAGE TEMPERATURE	Tstg	Normal	-30	+80 °C

ELECTRICAL CHARACTERISTIC (Vdd = + 3.3v, Ta = 25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Logic Supply Voltage	Vdd	-	2.2	3.3	3.5	V
"H" Input Voltage	V _{ih}	-	0.8 x Vdd	-	Vdd	V
"L" Input Voltage	V _{il}	-	0	-	0.2 x Vdd	V
"H" Output Voltage	V _{oh}	-	0.9 x Vdd	-	Vdd	V
"L" Output Voltage	V _{ol}	-	0	-	0.1 x Vdd	V
Module Supply Current	Idd	-	-	0.2	-	mA
LCD Driving Voltage	V _{Lcd}	Vdd-Vo	8.9	9.3	9.7	V

BACKLIGHT OPTION

LED COLOR	OPTION	CONDITION	FORWARD CURRENT (mA)			
			MIN	TYP	MAX	
YELLOW GREEN	YES	V _{led} = 3.3V R _{led} = 12 ohm	-	73	-	mA
WHITE	NO	-	-	-	-	
BLUE	NO	-	-	-	-	
AMBER	NO	-	-	-	-	
RED	NO	-	-	-	-	
CCFL	NO	-	-	-	-	
EL	NO	-	-	-	-	

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