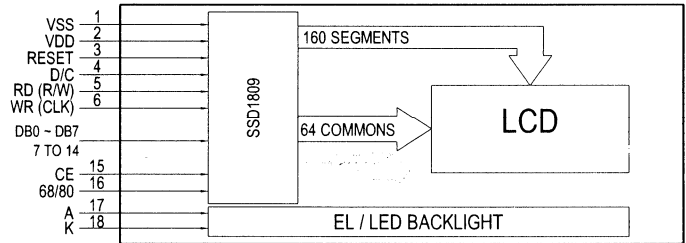
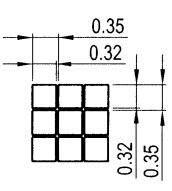
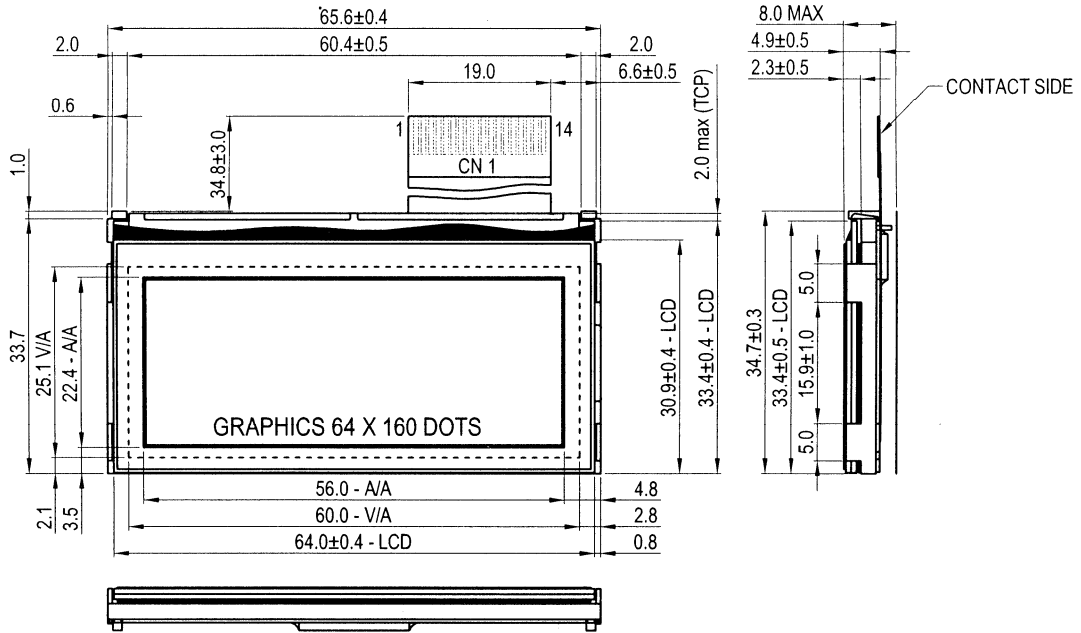


G64160X01 OUTLINE DIMENSION AND BLOCK DIAGRAM



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	Vih	-	0.8 x Vdd	-	Vdd	V
"L" Input Voltage	Vil	-	0	-	0.2 x Vdd	V
"H" Output Voltage	Voh	-	0.9 x Vdd	-	Vdd	V
"L" Output Voltage	Vol	-	0	-	0.1 x Vdd	V
Module Supply Current	Idd	-	-	0.2	-	mA
LCD Driving Voltage	VLC	Vdd-Vo	9.3	9.5	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	-	-	-	-	