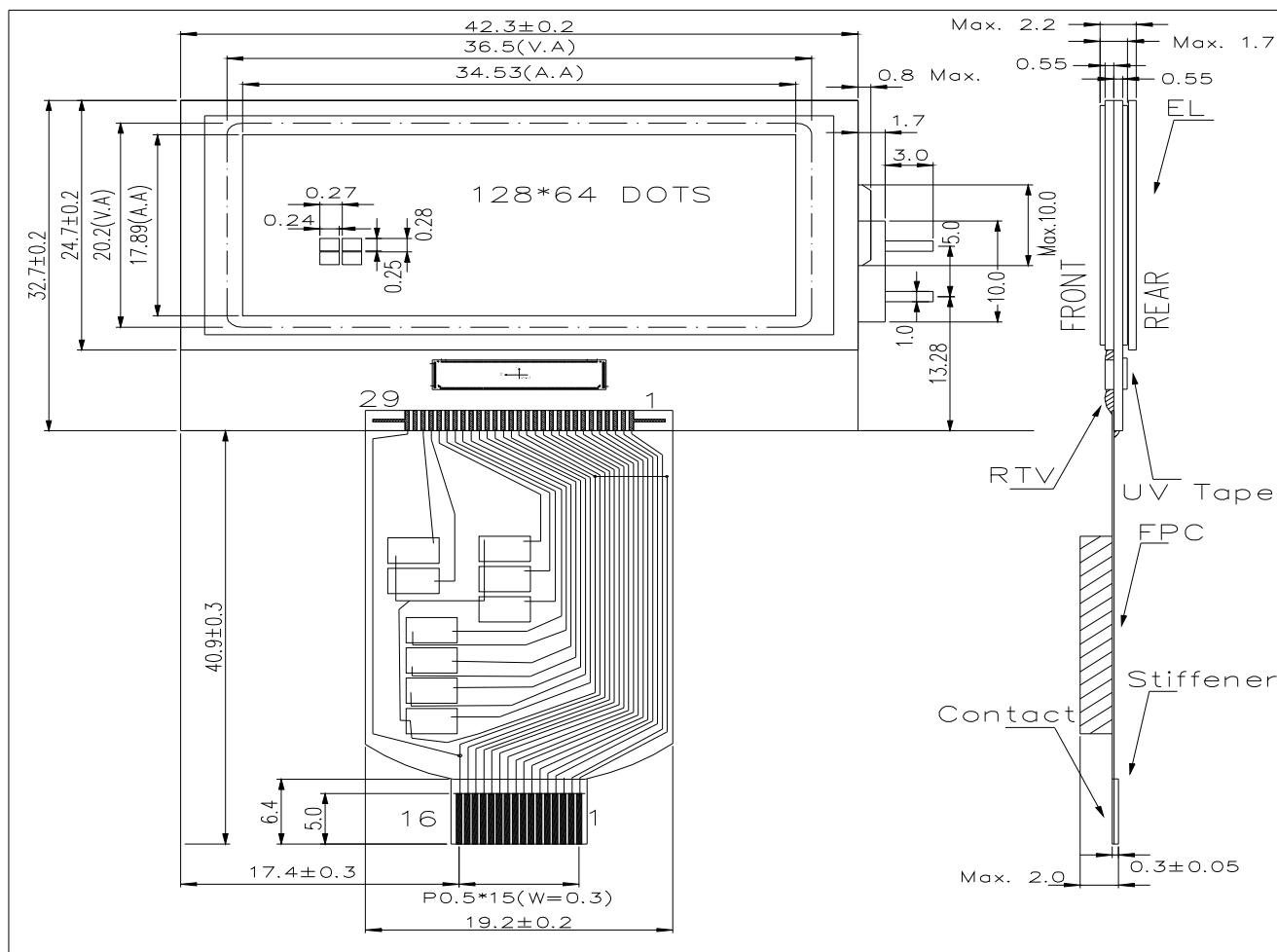
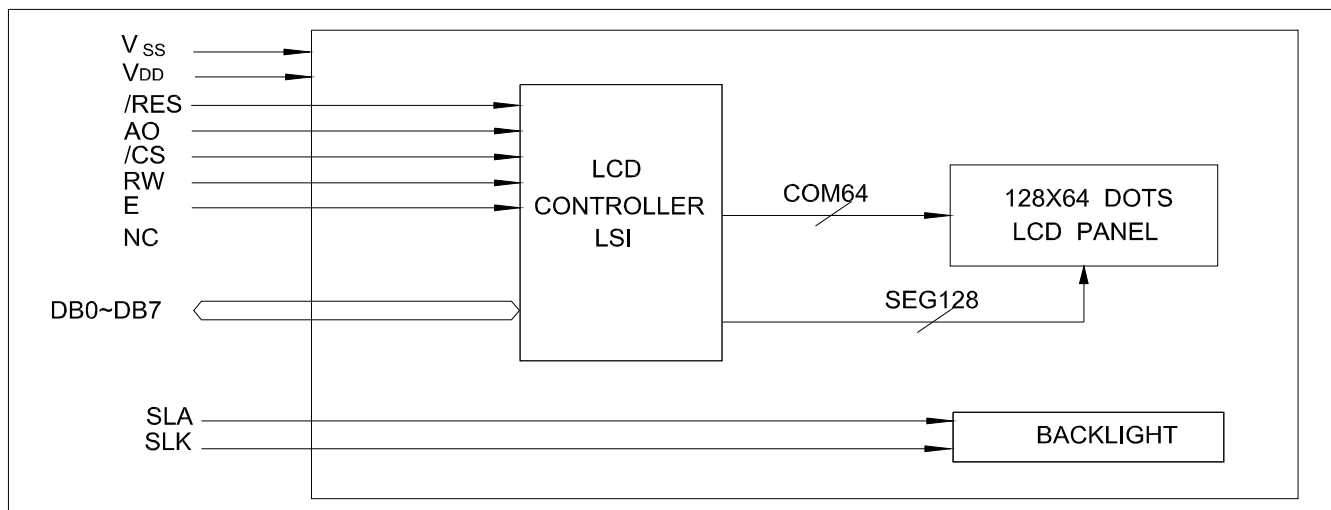


1.0 DIMENSIONAL DRAWING



2.0 BLOCK DIAGRAM



3.0 ELECTRICAL CHARACTERISTICS Ta=25 °C VDD=3.0V±0.25V

Item	Symbol	Test Condition	Standard Value			
			Min.	Typ.	Max.	Unit
Power Supply Voltage	V _{DD} -V _{SS}	25°C	2.7	3.0	5.5	V
LCD Operation Voltage	V _{OP}			9.0	13	V
LCM Current Consumption	I _{DD}			2	3	mA
Backlight Forward Voltage	V _F			110		V

4.0 ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Test Condition	Standard Value		
			Min.	Max.	Unit
Supply Voltage (Logic)	$V_{DD}-V_{SS}$	25°C	-0.3	7	V
Supply Voltage (LCD)	$V_{DD}-V_O$		-0.3	13	V
Input Voltage	V_{IN}		-0.3	$V_{DD}+0.3$	V
Operating Temp.	T_{OPR}		0	50	°C
Storage Temp.	T_{STG}		-10	60	°C

5.0 PIN ASSIGNMENT

PIN No.	Symbol	Description
1	VSS	Ground
2	/CS	Chip enable signal
3	NC	No Connect
4	/RES	Reset signal Power supply for LCD
5	A0	Register select input pin
6	RW	Read / Write execution control pin
7	E	Read / Write execution control pin
8~15	D0~D7	Data bus
16	V_{DD}	Power supply for logic circuit

Remark

1. LCD option: STN, FSTN .
2. Customized module.
3. Backlight option: EL backlight feature, other specs not available on catalog is under request.