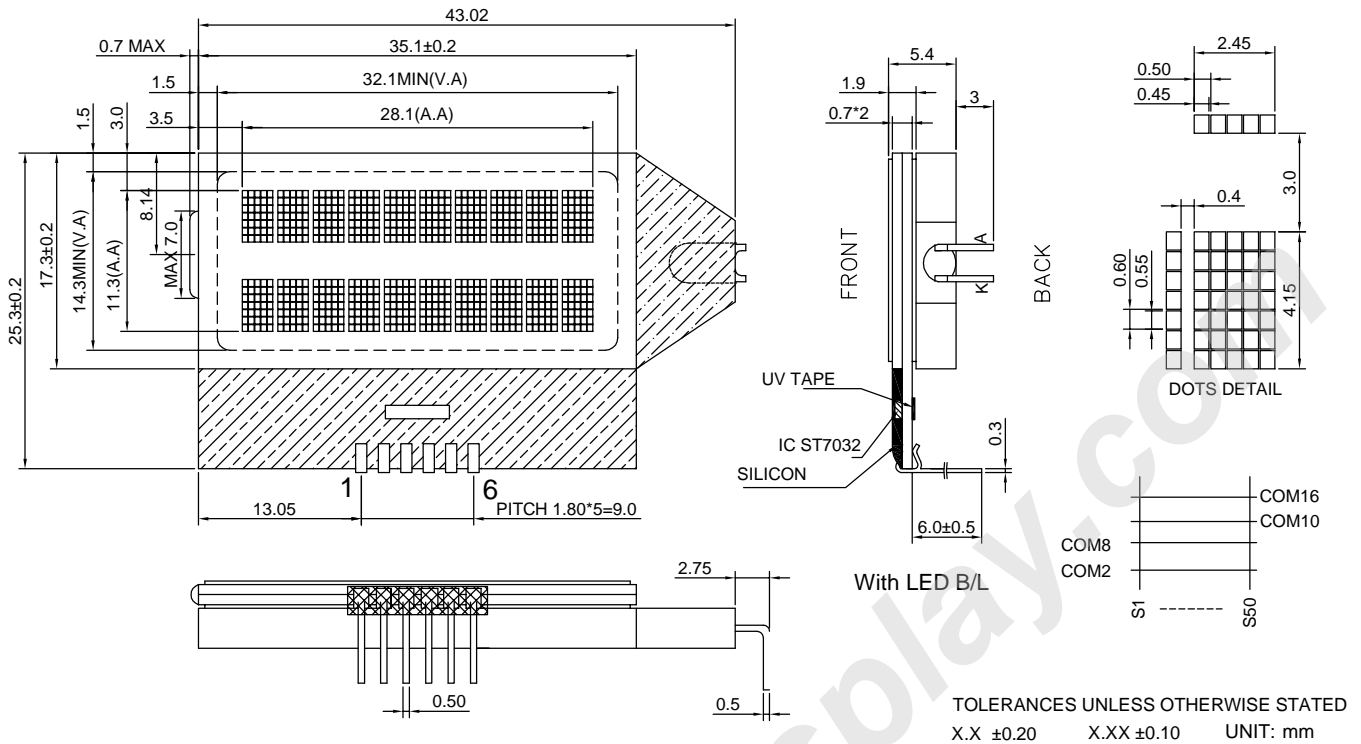


Dimension Drawing



Feature:

1. 2-line x10 characters display; 5x8 dots with cursor
2. Built-in controller ST7032
3. +5V power supply(also available for +3.3V)
4. 1/16 Duty cycle
5. STN or FSTN Mode
6. Match all kind colors of LED back light
7. ROHS compliant

Interface Pin Connections

PIN NO.	Symbol	Function
1	VDD	+5V or +3.3V
2	VSS	GND
3	DB7(SI)	H/L Data bus line(input data)
4	DB6(SCL)	H/L Data bus line(serial clock)
5	CSB	Chip select in parallel mode and serial interface
6	RS	H/L Register select signal

Mechanical Data

Item	Standard	Unit
Module dimension	43.02 x 25.3	mm
Viewing area	32.1 x 14.3	mm
Character size	2.45 x 4.15	mm
Dots size	0.45 x 0.55	mm

Absolute Maximum Rating

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Power supply	VDD-VSS	-0.3	---	7.0	V
Input voltage	VI	-0.3	---	VDD+0.3	

Electronical Characteristics

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	VDD	+5.0V	4.5	5.0	5.5	V
		+3.3V	2.7	3.3	4.5	V
Supply current	I _{DD}	VDD=5V	----	160	230	uA
Recommended LCD driving voltage for normal temp version module	VDD-V0 (VDD=5V)	-20°C	4.9	5.2	5.5	V
		0°C	4.5	4.8	5.1	
		25°C	4.1	4.5	4.8	
		50°C	3.8	5.0	4.4	
LED forward voltage	VF	25°C	----	4.2	4.6	V
LED forward current	IF	25°C Edge	----	15	20	mA

Display Character Address Code:

Display position 1 2 3 4 5 6 7 8 9 10

DDRAM address 00 01 02 -- -- -- -- 09H

DDRAM address 40 41 42 -- -- -- -- 49H