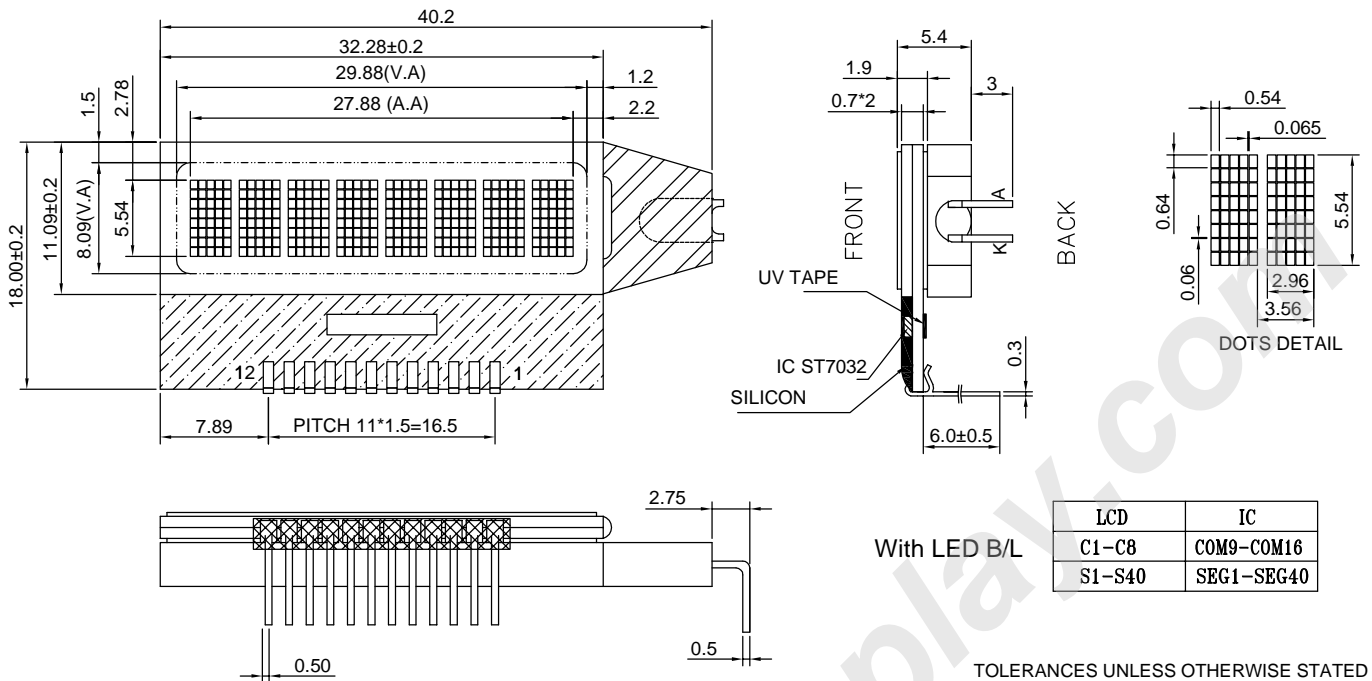


Dimension Drawing



TOLERANCES UNLESS OTHERWISE STATED
 X.X ±0.20 X.XX ±0.10 UNIT: mm

Feature:

- 1-line x8 characters display; 5x8 dots with cursor
- Built-in controller ST7032
- +5V power supply(also available for +3.3V)
- 1/8 Duty cycle
- BTN, STN or FSTN Mode
- Match all kind colors of LED back light
- ROHS compliant

Interface Pin Connections

PIN NO.	Symbol	Function
1	XRESET	External reset pin.
2	RS	H/L Register select signal
3	CSB	Chip select in parallel mode and serial interface
4	R/W	H/L Read/Write signal
5	E	H/L Enable signal
6	DB4	H/L Data bus line
7	DB5	H/L Data bus line
8	DB6	H/L Data bus line
9	DB7	H/L Data bus line
10	VSS	GND
11	VDD	+5V or +3.3V
12	V0	Contrast adjustment

Mechanical Data

Item	Standard	Unit
Module dimension	40.2 x 18.0	mm
Viewing area	29.88 x 8.09	mm
Character size	2.96 x 5.54	mm
Dots size	0.54 x 0.64	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	----	3.0	3.2	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

DDRAM address 00 01 02 -- -- -- -- 07H