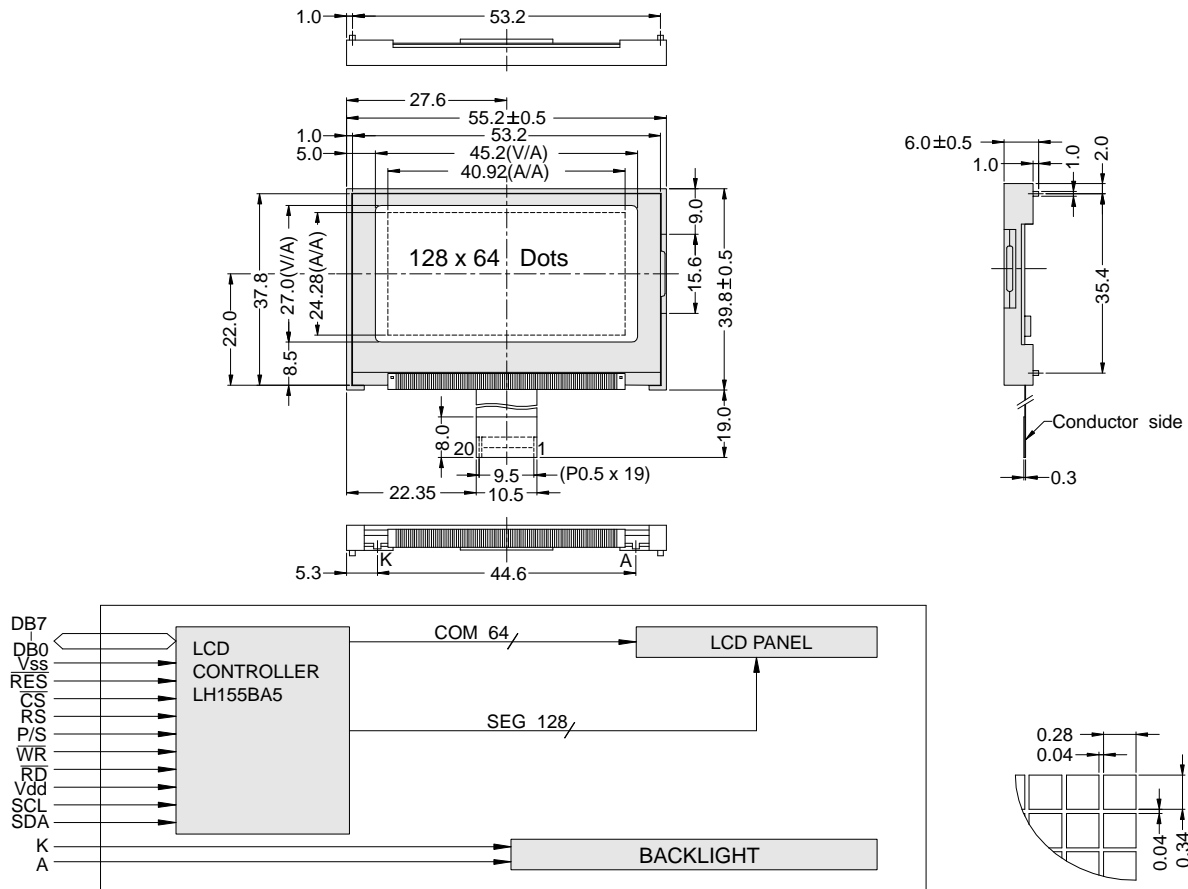


OUTLINE DIMENSION & BLOCK DIAGRAM



The tolerance unless classified $\pm 0.3\text{mm}$

MECHANICAL SPECIFICATION			
Overall Size	55.2 x 39.8	Module	H2 / H1
View Area	45.2 x 27.0	W/O B/L	5.0 / 6.0
Dot Size	0.28 x 0.34	EL B/L	- / -
Dot Pitch	0.23 x 0.38	LED B/L	5.0 / 6.0

PIN ASSIGNMENT		
Pin no.	Symbol	Function
1	Vss	Power supply(GND)
2	RES	Reset
3	CS	Chip select signal
4	RS	Identify data sent by MPU at D0 to D7
5	P/S	Switch between parallel & serial interface
6	WR	Write data signal
7	RD	Read data signal
8-15	DB0-DB7	Data bus line
16	Vdd	Power supply(+)
17	SCL	Serial data input pin
18	SDA	Serial data transfer clock pin
19	A	Power supply for LED B/L(+)
20	K	Power supply for LED B/L(-)

ABSOLUTE MAXIMUM RATING									
Item	Symbol	Condition	Min.	Max.	Units				
Supply for logic voltage	Vdd-Vss	25°C	-0.3	6.0	V				
LCD driving supply voltage	Vdd-Vee	25°C	-0.3	15.0	V				
Input voltage	Vin	25°C	-0.3	Vdd-0.3	V				
ELECTRICAL CHARACTERISTICS									
Item	Symbol	Condition	Min.	Typical	Max.	Units			
Power supply voltage	Vdd-Vss	25°C	1.8	-	5.5	V			
LCD operation voltage	Vop	Top	N	W	N	W	V		
		-20°C	-	8.6	-	9.0	-	V	
		0°C	8.6	-	8.9	-	9.2	-	V
		25°C	8.1	8.6	8.4	9.0	8.7	9.5	V
		50°C	7.7	-	8.0	-	8.3	-	V
70°C	-	8.0	-	8.4	-	8.8	V		
LCM current consumption (No B/L)	Idd	Vdd=5V	-	1	3	mA			
Backlight current consumption	LED/edge	VB/L=2.1V	-	40	-	mA			
	LED/array	VB/L=4.2V	-	-	-	mA			

REMARK

LCD option: STN, TN, FSTN

Backlight Option: LED,EL Backlight feature, other Specs not available on catalog is under request.

