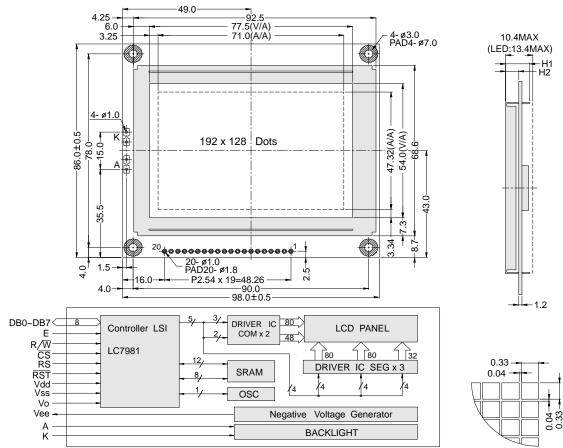
₩ POWERTIP

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PG 192128-B.....



OUTLINE DIMENSION & BLOCK DIAGRAM



The tolerance unless classified ± 0.3 mm

MECHANICAL SPECIFICATION								
Overall Size	98.0 x 86.0	Module	H2 / H1					
View Area	77.5 x 54.0	W /O B/L	5.0 / 9.2					
Dot Size	0.33 x 0.33	EL B/L	5.0 / 9.2					
Dot Pitch	0.37 x 0.37	LED B/L	8.0 / 12.2					

PIN ASSIGNMENT					
Pin no.	Symbol	Function			
1	Vss	Power supply (GND)			
2	Vdd	Power supply (+)			
3	Vo	Contrast adjust			
4	RS	Common / Data select			
5	R/W	data read / write			
6	E	enable signal			
7	DB0	Data bus line			
8	DB1	Data bus line			
9	DB2	Data bus line			
10	DB3	Data bus line			
11	DB4	Data bus line			
12	DB5	Data bus line			
13	DB6	Data bus line			
14	DB7	Data bus line			
15	CS	Chip select			
16	RST	Reset			
17	Vee	Negative voltage output			
18	N/C	No connection			
19	Α	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			7.0		V
LCD driving supply voltage	Vdd-Vee		25°C		0			30.0		V
Input voltage	Vin		25°C	25°C		-0.3		Vdd+0.3		V
ELECTRICAL CHARACTERISTICS										
Item	Symbol	Condition		N	/lin. Typic		ical	Max.		Units
Power supply voltage	Vdd-Vss	25°C		4.75		_		5.25		V
LCD operation voltage	Vop		Тор		W	N	W	Ν	W	V
		-	-20°C		19.5	_	20.6	_	21.7	V
			0°C	19.4	_	20.4	_	21.4	_	V
			25°C	18.0	17.0	18.9	17.9	19.8	18.8	V
			50°C	16.1	_	16.9	_	17.7	_	V
			70°C	_	15.4	_	16.3	_	17.2	V
LCM current consumption (No B/L)	ldd	V	dd=5V	_		20		25		mA
Packlight ourrent consumption	LED/edge	VB	/L=4.2V	_		85		_		mA
Backlight current consumption	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.