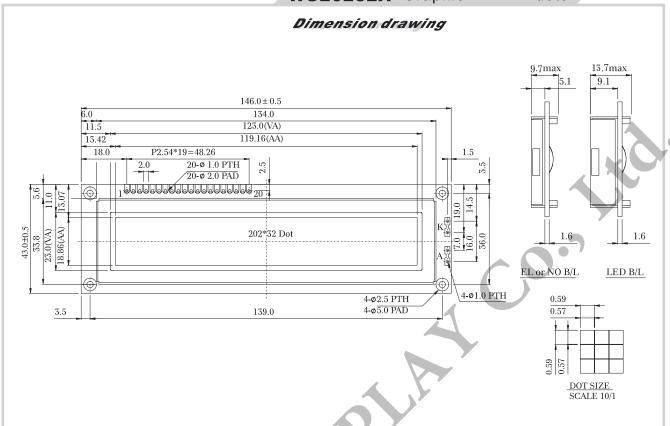


WG20232A Graphic 202x32 dots



- Built-in oscilation.
 Built-in controller Avant(SBN1661G) or equivalent
- 3. 1/32 duty cycle
- 4. 2.85 ~ 5V power supply

Pi	n NO.	Symbol	Function			
Г	1	Vss	GND			
	2	Vdd	Power Supply(+3V,5V)			
	3	Vo	Contrast Adjustment			
	4	A0	H:Do ~ D7 are display data L:Do ~ D7 are display control data			
	5	R/W	WR for 80 serial R/W for 68 serial			
	6	Cs1	Enable chip1			
	7	DB0	Data bus line			
	8	DB1	Data bus line			
	9	DB2	Data bus line			
	10	DB3	Data bus line			
47	11	DB4	Data bus line			
	12	DB5	Data bus line			
	13	DB6	Data bus line			
	14	DB7	Data bus line			
	15	Vee	Negative Voltage output			
	16	Reset	Reset signal			
	17	Α	+4.2V for LED RA=OΩ			
	18	K	Power supply for B/L (0V)			
	19	CS2	Enable chip2			
	20	CS3	Enable chip3			

Mechanical Data

Item	Standard Value		
Module Dimension	146.0x43.0	mm	
Viewing Area	123.0x23.0	mm	
Dot Size	0.57x0.57	mm	
Dot Pitch	0.59x0.59	mm	
Mounting hole	139.0x36.0	mm	

Absolute Maximum Rating

ltem	Cymahal	Stan	Unit			
item	Symbol	min.	typ.	max.	Ullit	
Power Supply	VDD-VSS	-0.3		8.0	V	
Input Voltage	VI	-0.3		VDD	٧	

Note: VSS=0 Volt, VDD=5.0 Volt.

Electronical Characteristics

Item	Symbol	Condition	Stan			
item			min.	typ.	max.	Unit
Input Voltage	VDD	VDD=3V ± 5V	2.7	3.0	3.3	٧
Supply Current	IDD	VDD=3V		1 0		mA
Recommended LC Driving	VDD-V0	-20°C	5.9	6.2	6.5	V
Recommended LC Driving		0°C	5.7	6.0	6.3	
Voltage for Normal Temp.		25°C	4.6	4.7	4.8	
Version module		50°C	4.3	4.4	4.5	
Version module		70°C	3.3	3.4	3.5	
LED Forward Voltage	VF	25°C	1.7		2.5	V
LED Forward Current	IF	25°C			200	mA
EL Power Supply Current	IEL	Vel=110VAC;400Hz			5.0	mA

