

# BG12232A

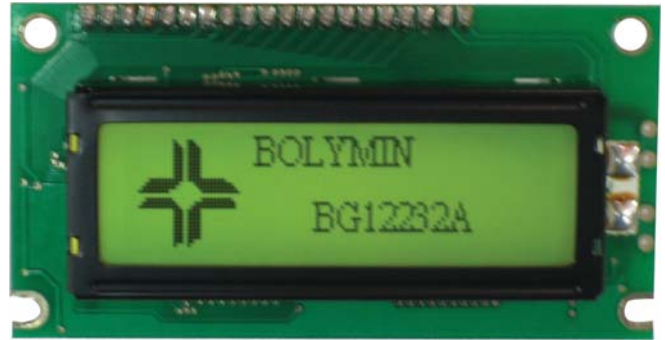


## Feature

1. COB with metal frame
2. No built-in oscillation, requiring external clock
3. Built-in controller SED1520Daa
4. 1/32 duty cycle
5. + 5V single power supply
6. LED B/L Pins:19/20, or A/K, or 1/2
7. Option: LED, EL B/L
8. Option: +3V single power supply

## Mechanical Data

Item	Standard Value	Unit
Module Dimension	84.0 x 44.0	mm
Viewing Area	60 x 18	mm
Dot Size	0.4 x 0.45	mm
Dot Pitch	0.44 x 0.49	mm



## Pin Assignment

Pin	Symbol	Function
1	Vss	GND
2	Vdd	+5V(+3V option)
3	Vo	Contrast Adjustment
4	Ao	H --> Data L --> Instruction
5	/CS1	L --> Chip1 enable (seg1~seg61)
6	/CS2	L --> Chip2 enable (seg62~seg122)
7	CL	External clock 2KHZ
8	/RD/E	RD for 80 serial; /E for 68 serial
9	/WR,R/W	WR for 80 serial; R/W for 68 serial
10~17	DB0~7	Data bus line
18	/RES	L: 80 serial, H: 68 serial
19	A	Power supply for B/L (+)
20	K	Power supply for B/L (GND)

## Electronic Characteristics

Item	Symbol	Condition	Typical Value	Unit
Input Voltage	Vdd	Vdd = +5V	5.0	V
Supply Current	Idd	Vdd = +5V	1.0	mA
LCD Driving Voltage	Vdd-Vo	25°C	4.5	V
LED Forward Voltage	Vf	25°C	4.2	V
LED Forward Current	If	25°C	100	mA
EL Power Voltage	Vel	Vel=110Vac/400Hz		V

## Dimension

