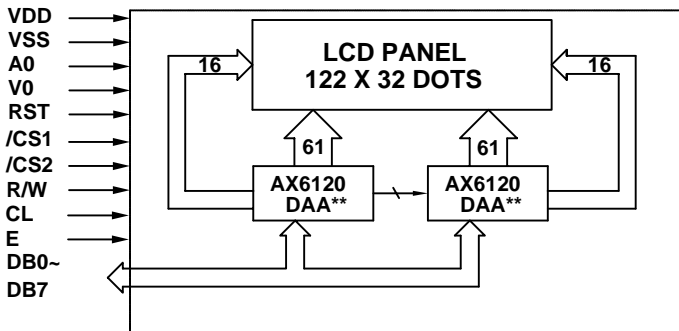
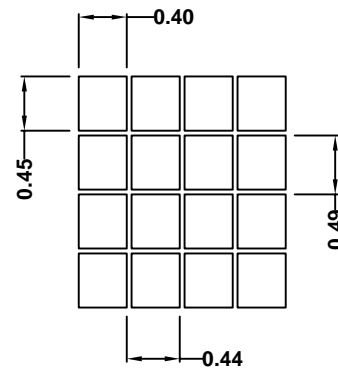
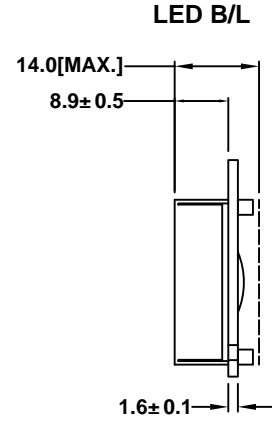
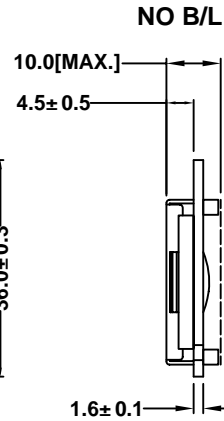
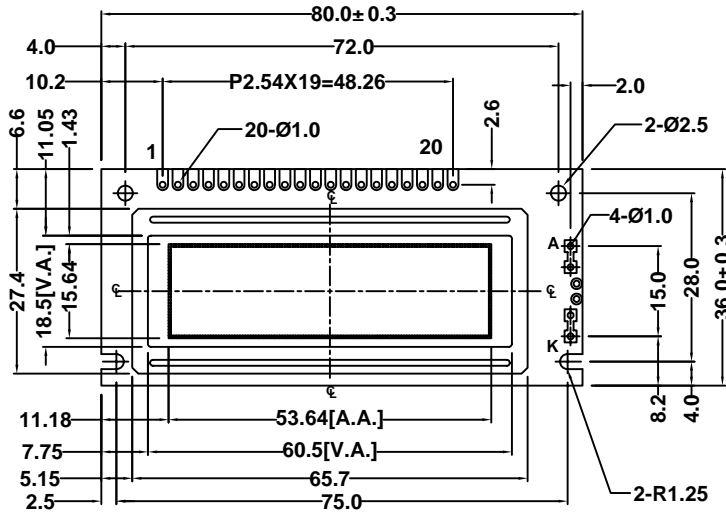




# AMG12232B

## CONTOUR DRAWING & BLOCK DIAGRAM



\*\* OR EQUIVALENT

MECHANICAL SPECIFICATION		
ITEM	SPECIFICATION	UNIT
Module Size	80.0X36.0X10.0/14.0	mm
Viewing Area	60.5X18.5	mm
Number of dots	122X32	dots
Dot Pitch	0.44X0.49	mm
Dot Size	0.40X0.45	mm

ABSOLUTE MAXIMUM RATINGS				
PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Supply Voltage	Vdd	-0.3	7.0	V
LCD Supply Voltage	Vlcd(Vdd-V0)	0	12	V
Input Voltage	Vin	-0.3	Vdd+0.3	V
Operating Temperature*	Top	0/-20	50/70	° C
Storage Temperature*	Tstr	-10/-30	60/80	° C

PIN CONNECTIONS		
PIN	SYMBOL	DESCRIPTION
1	VSS	Ground
2	VDD	Supply voltage for LCD(+)
3	V0	Supply voltage for LCD(-)
4	A0	Register Select
5	/CS1	Chip Select 1
6	/CS2	Chip Select 2
7	CL	Clock
8	E	Enable
9	R/W	Read/Write
10-17	DB0-DB7	DATA Bus
18	RST	Reset signal
19	A	Anode for backlight
20	K	Cathode for backlight

ELECTRICAL CHARACTERISTICS(Ta=25° C)						
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage(logic)	Vdd	-	4.5	5.0	5.5	V
Supply Current(logic)	Idd	Vdd=5.0	-	1.0	3.0	mA
Driving Voltage(LCD)	Vlcd	-	-	6.5	-	V
Driving Current(LCD)	Ilcd	-	-	0.3	0.6	mA

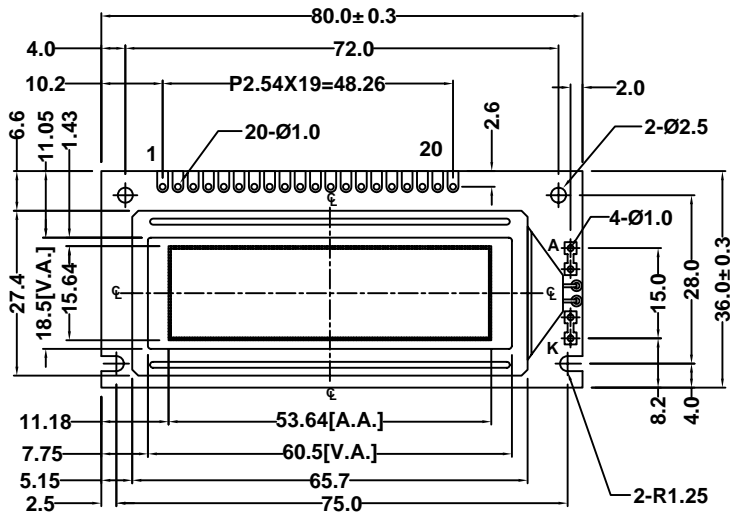
BACKLIGHT CHARACTERISTICS (Ta=25° C)						
PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	Vf	If=190mA	3.8	4.2	4.3	V
LED Forward Current	If	-	-	190	-	mA
LED Dissipation	Pd	-	-	798	-	mW

\*T1/T2: T1for standard temperature LCM, T2 for wide temperature LCM

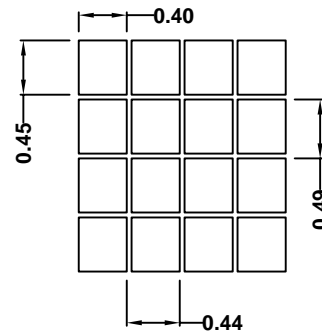
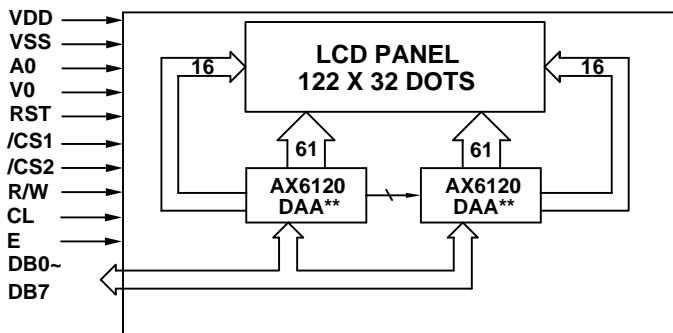
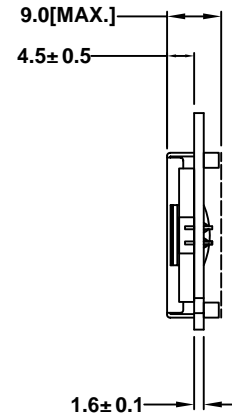


# AMG12232B

## CONTOUR DRAWING & BLOCK DIAGRAM



WHITE LED B/L



\*\* OR EQUIVALENT

MECHANICAL SPECIFICATION		
ITEM	SPECIFICATION	UNIT
Module Size	80.0X36.0X9.0	mm
Viewing Area	60.5X18.5	mm
Number of dots	122X32	dots
Dot Pitch	0.44X0.49	mm
Dot Size	0.40X0.45	mm

ABSOLUTE MAXIMUM RATINGS				
PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Supply Voltage	Vdd	-0.3	7.0	V
LCD Supply Voltage	Vlcd(Vdd-V0)	0	12	V
Input Voltage	Vin	-0.3	Vdd+0.3	V
Operating Temperature*	Top	0/-20	50/70	° C
Storage Temperature*	Tstr	-10/-30	60/80	° C

PIN CONNECTIONS		
PIN	SYMBOL	DESCRIPTION
1	VSS	Ground
2	VDD	Supply voltage for LCD(+)
3	V0	Supply voltage for LCD(-)
4	A0	Register Select
5	/CS1	Chip Select 1
6	/CS2	Chip Select 2
7	CL	Clock
8	E	Enable
9	R/W	Read/Write
10-17	DB0-DB7	DATA Bus
18	RST	Reset signal
19	A	Anode for backlight
20	K	Cathode for backlight

ELECTRICAL CHARACTERISTICS(Ta=25° C)						
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage(logic)	Vdd	-	4.5	5.0	5.5	V
Supply Current(logic)	Idd	Vdd=5.0	-	1.0	3.0	mA
Driving Voltage(LCD)	Vlcd	-	-	6.5	-	V
Driving Current(LCD)	Ilcd	-	-	0.3	0.6	mA

BACKLIGHT CHARACTERISTICS (Ta=25° C)						
PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	Vf	If=20mA	2.9	3.1	3.3	V
LED Forward Current	If	-	-	20	-	mA
LED Dissipation	Pd	-	-	62	-	mW

\*T1/T2: T1for standard temperature LCM, T2 for wide temperature LCM