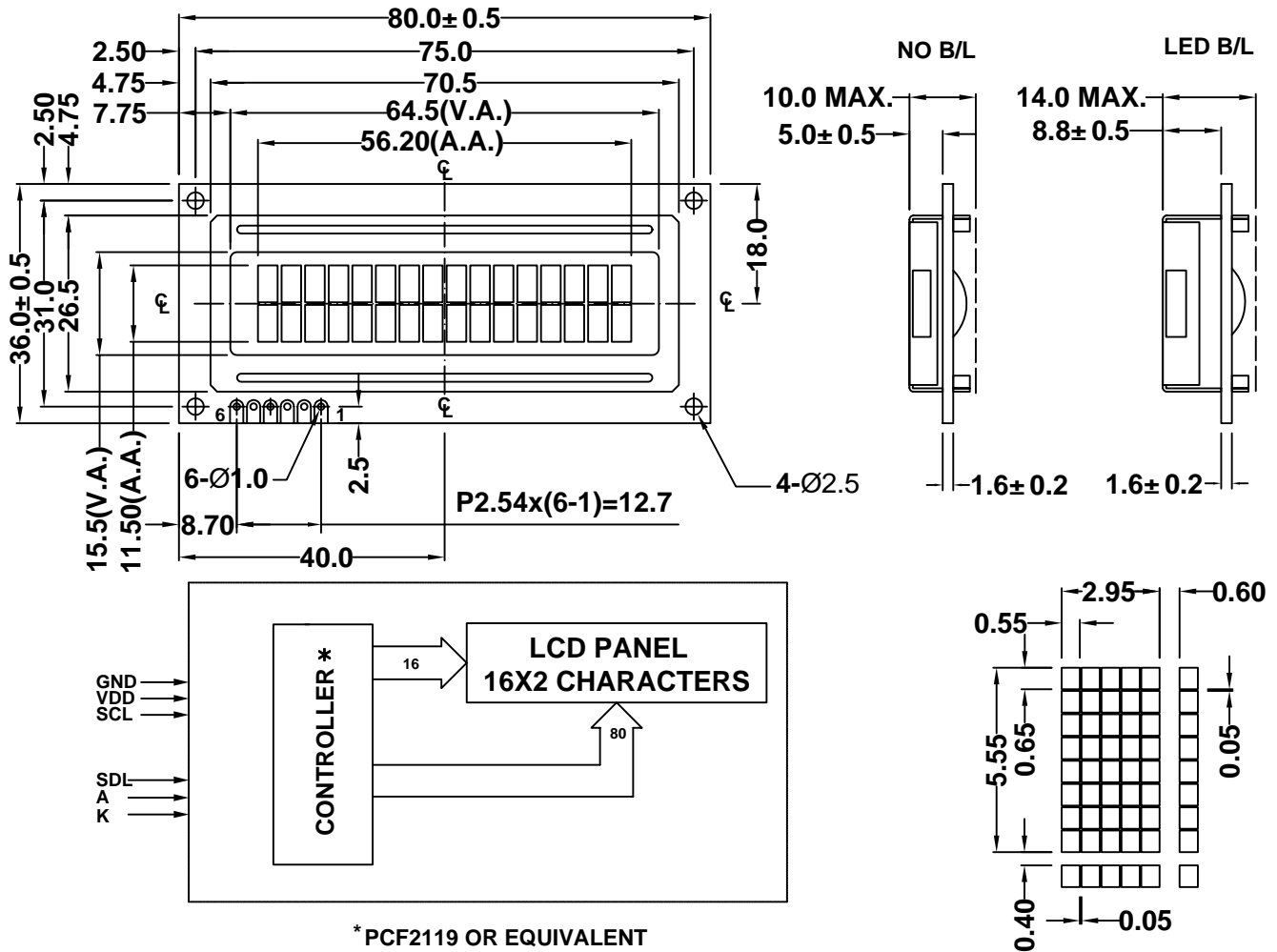


# BHC1602E

## CONTOUR DRAWING & BLOCK DIAGRAM



MECHANICAL SPECIFICATION		
ITEM	SPECIFICATION	UNIT
Module Size	80.0X36.0X10.0/14.0	mm
Viewing Area	64.5X15.5	mm
Character Font	5 x 7 + cursor	dots
Character Size	2.95X5.55	mm
Character Pitch	3.55X5.95	mm
Dot Size	0.55X0.65	mm

ABSOLUTE MAXIMUM RATINGS				
PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Supply Voltage	V <sub>dd</sub>	-0.5	6.5	V
LCD Supply Voltage	V <sub>lcd</sub>	-0.5	7.5	V
Input Voltage	V <sub>in</sub>	-0.5	V <sub>dd</sub> +0.5	V
Operating Temperature*	T <sub>op</sub>	0/-20	50/70	° C
Storage Temperature*	T <sub>str</sub>	-10/-30	60/80	° C

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

PIN CONNECTIONS		
PIN	SYMBOL	DESCRIPTION
1	V <sub>ss</sub>	Power Supply : 0V
2	V <sub>dd</sub>	Power Supply : +5V
3	SCL	I2C-Bus Serial Clock input
4	SDL	DATA INPUT/OUTPUT
5	A	Anode for backlight
6	K	Cathode for backlight

ELECTRICAL CHARACTERISTICS(Ta=25° C)						
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage(logic)	V <sub>dd</sub>	-	4.5	5.0	5.5	V
Supply Current(logic)	I <sub>dd</sub>	V <sub>dd</sub> =5.0	0.8	0.7	1.5	mA
Driving Voltage(LCD)	V <sub>lcd</sub>	-	4.7	5.0	5.7	V
Driving Current(LCD)	I <sub>lcd</sub>	-	-	-	-	mA

BACKLIGHT CHARACTERISTICS (Ta=25° C)						
PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	V <sub>f</sub>	-	3.8	4.1	4.4	V
LED Forward Current	I <sub>f</sub>	V <sub>f</sub> =4.1V	-	120	-	mA
LED Dissipation	P <sub>d</sub>	-	-	504	-	mW