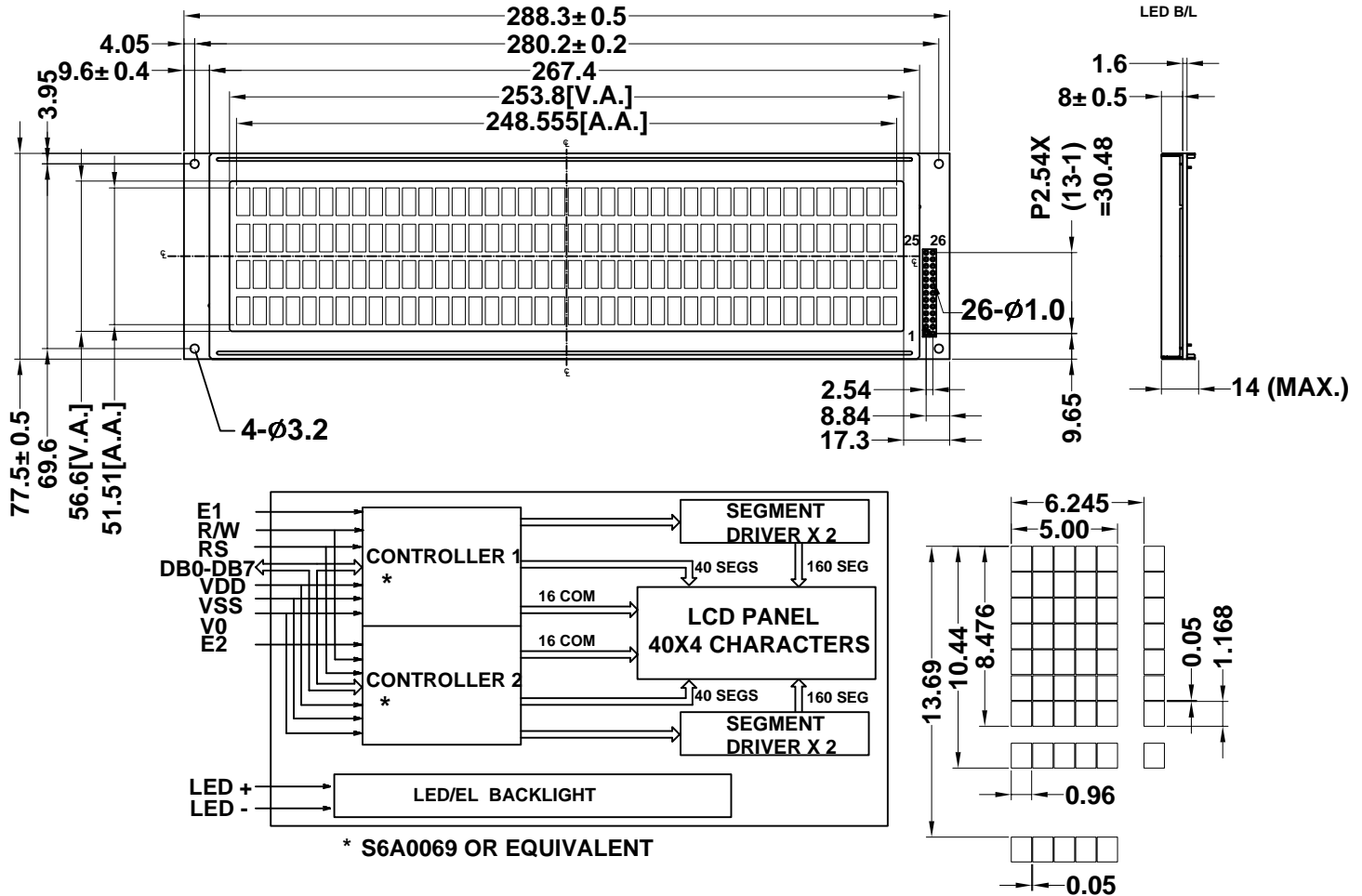




# AMC4004B

## CONTOUR DRAWING & BLOCK DIAGRAM



MECHANICAL SPECIFICATION		
ITEM	SPECIFICATION	UNIT
Module Size	288.3X77.5X14.0	mm
Viewing Area	253.8X56.6	mm
Character Font	5 x 7 + cursor	dots
Character Size	5.00X8.476	mm
Character Pitch	6.245X13.69	mm
Dot Size	0.96X1.168	mm

ABSOLUTE MAXIMUM RATINGS				
PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Supply Voltage	Vdd	-0.3	7.0	V
LCD Supply Voltage	Vlcd(Vdd-V0)	-13.5	0.3	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

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

PIN CONNECTIONS		
PIN	SYMBOL	DESCRIPTION
8,10,12,14,16,18	VSS	Power Supply : 0V
22,24	VDD	Power Supply : +5V
7	RS	Register Select
5	R/W	Read/Write
9	E1	Enable For Chip1
3	E2	Enable For Chip2
11,13,15,17,	DB0 to DB3	Data Bus
19,21,23,25,	DB4 to DB7	Data Bus
1,2,4,6	NC	NO CONNECT
26	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	5.5	6.0	8.0	mA
Driving Voltage(LCD)	Vlcd	-	8.5	9.0	9.5	V
Driving Current(LCD)	Ilcd	-	-	0.3	0.7	mA

BACKLIGHT CHARACTERISTICS (Ta=25° C)						
PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	Vf	If=2200mA	3.8	4.2	4.3	V
LED Forward Current	If	-	-	2200	-	mA
LED Dissipation	Pd	-	-	11000	-	mW